

## **FOURTH YEAR ANNUAL REPORT**

INTERSTATE POLLUTION CONTROL/ROTO-ROOTER SUPERFUND SITE  
Winnebago County  
Rockford, Illinois

Prepared for:

Interstate Pollution Control/Roto-Rooter Superfund Site Remedial Design/Remedial Action Steering Committee

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October 5, 2011

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## **1.0 INTRODUCTION**

This Fourth Year Annual Report (“report”) was prepared by Environmental Information Logistics, LLC (EIL) on behalf of the Interstate Pollution Control/Roto-Rooter (“IPC”) Superfund Site Remedial Design/Remedial Action Steering Committee. This report discusses the results of long-term natural attenuation monitoring through the second quarter (June) 2011 sampling event, and satisfies the requirements of the IEPA-approved Groundwater Monitoring Work Plan (“GWMP”), dated March 1, 2006, and IEPA-approved First Year Annual Report/Technical Memorandum (“Tech Memo”), dated August 28, 2008, and the Consent Decree (with Appendix B – Statement of Work (SOW)) with the State of Illinois, dated March 1, 2006.

Section 6.0 of the IEPA-approved GWMP states the following:

*“Annual reports will be prepared and submitted to the IEPA within 45 days of completing each second semi-annual groundwater sampling event (except in years 1, 5, 10, 15, etc., as discussed above and below). Each of the annual reports will include a summary of groundwater data collected during the past year and will include an evaluation, based on the IEPA-approved statistical methodology, of the source of any statistically significant changes to groundwater quality. Where appropriate, the annual report may also recommend changes to the statistical methodology for future monitoring events.”*

This report includes a summary of groundwater quality collected to date during natural attenuation monitoring and a comparison of the results to calculated background groundwater quality standards. This report also includes an alternative source demonstration (ASD) to address the presence of two COCs in downgradient monitoring well MW4 and one COC in downgradient monitoring well MW1.

### **1.1 Site Description and Background**

#### ***1.1.1 Site Description***

The Interstate Pollution Control Inc. (IPC) site (“the site”) is located in an industrial area in the south central part of Rockford, Winnebago County, Illinois north west of Magnolia Peoples Avenue, as shown on the figure included in Attachment 1. The small (approximately 2.8 acre), irregularly-shaped site measures approximately 850 feet long along the north boundary line and 270 feet along the east boundary line.

During IPC’s operation of the site it contained, at various times, at least six underground storage tanks, one large above-ground storage tank, an unlined surface impoundment, a gas fired incinerator, and several structures. IPC’s operation at the site included transporting and bulking of waste oils, solvents and cyanide waste for incineration, resale and/or off-site disposal. Also during IPC’s operation of the site, support service was provided to two sister companies; a portable toilet business and a Roto-Rooter franchise. Prior to IPC’s operations, the site was extensively quarried and backfilled with various materials including a large quantity of foundry

sand. Following filling of the quarry and immediately prior to IPC's operations, the site was the location of an auto salvage yard.

In 1991, private parties negotiated a Partial Consent Decree with the Illinois EPA and the Attorney General of the State of Illinois. The Partial Consent Decree required that the private parties ("Respondents") undertake a Remedial Investigation/Feasibility Study ("RI/FS") at the site. The RI Work Plan was completed in 1992, and the field investigations were conducted in 1993-1994. The final RI Report was submitted in 1997.

Significant removal actions have occurred at the IPC site on two different occasions. The incinerator was removed between 1976 and 1979. IPC conducted partial cleanup of the site in 1979 and 1980, in response to an Illinois Pollution Control Board Order. During this partial cleanup of the site, several bulk tankers containing wastes, approximately 180 yds<sup>3</sup> of material from the surface impoundment, and approximately 120 yd<sup>3</sup> of cyanide-contaminated soils were removed. Reportedly, 1,200 drums of contaminated materials were also removed from the site during this cleanup. The surface impoundment was backfilled and graded.

On August 6, 1991, the U.S. EPA issued a Unilateral Administrative Order ("UAO") to IPC and the Respondents to conduct additional removal activities at the site. Beginning in 1992, the Respondents to the UAO fenced the site, removed over 1,400 tons of solid and hazardous waste (including visibly stained soils), demolished and removed all above-ground and underground tanks and significant structures, installed a clay cover over the former impoundments, and substantially cleared the site.

These removal actions eliminated more than 2.9 million pounds of solid and hazardous waste. These materials constituted principal threats at the site and were removed, treated, destroyed or disposed of prior to the initiation of the RI/FS.

### **1.1.2 Constituents of Concern (COCs)**

A total of 73 chemicals of potential concern ("COPCs") were identified originally in the RI based on previous detections in site soils and were selected for risk assessment. These included 11 volatile organic compounds ("VOCs"), 29 semi-volatile organic compounds ("SVOCs"), 14 pesticide/PCB compounds, 18 trace metals, and cyanide. In addition, a total of 33 chemicals previously detected in on-site groundwater were selected as COPCs. These included 11 VOCs, 10 SVOCs, one pesticide/PCB compound, 11 trace metals, and cyanide. A significantly reduced number of these COPCs were found to be risk drivers, as summarized in the "*Risk Driving Chemicals of Potential Concern*" table from Section V of the ROD.

Based on the previously discussed contaminant removal activities and the installation of the engineered barrier, and as stated in Section 2.4 of the SOW, "*VOCs are the sole constituents of concern*" with respect to long term natural attenuation groundwater monitoring at the site. Section 2.4 of the SOW specifies that "...groundwater will be sampled for TCL VOC's only." during long term natural attenuation monitoring. In addition, paragraph XII of the Record of Decision (ROD) states "*If during each Five Year Review cycle spastically [sic] significant decreases in on-site and down gradient concentrations of trichloroethene and 1,1,1-*

*trichloroethane in shallow groundwater are not verified (which cannot be attributed to upgradient sources), the SVE design pilot test will be implemented."*

Seven VOCs were detected in site monitoring wells during the background data collection period and as reported in the August 28, 2008 First Year Annual Report/Technical Memorandum. These are:

- 1,1,1-trichloroethane
- 1,1-dichloroethane
- 1,1-dichloroethene
- cis-1,2-dichloroethene
- tetrachloroethene
- trichloroethane
- vinyl chloride

However, only four VOCs were proposed originally as site-specific COCs for long-term groundwater quality evaluation. Three VOCs, 1,1-dichloroethane, vinyl chloride, and cis-1,2-dichloroethene, were specifically not proposed as COCs because they were generally detected at elevated concentrations in downgradient monitoring wells and because there was (is) strong evidence to suggest that the downgradient concentrations were (are) biased due to an off-site source (i.e., landfill gas from the adjacent Peoples Avenue Landfill). However, IEPA's approval of the August 28, 2008 First Year Annual Report/Technical Memorandum was conditional based on the inclusion of all seven VOCs as COCs. Therefore, all seven of the VOCs detected during background data collection and as listed above are evaluated herein as COCs.

### ***1.1.3 Extent of Groundwater Impacts***

Remedial investigation activities were conducted at the site to evaluate the nature and extent of contamination, and to assess environmental impacts. Detailed results are provided in the *Final Remedial Investigation Report, Interstate Pollution Control Inc. Site, Rockford, Illinois* (Golder Associates Inc., December 1997). In general, site groundwater was found to be impacted with numerous organic and inorganic constituents from a combination of past site activities and from a number of upgradient sources. Some of the upgradient sources are being addressed under various regulatory actions and it appears that some are not. In addition, landfill gas from the adjacent Peoples Avenue Landfill was detected on-site and identified as another possible source of VOCs in groundwater.

The site is located adjacent to the much larger Southeast Rockford Groundwater Contamination ("SER") site. The SER site began with the discovery of VOCs in groundwater within a residential area of nearly two square miles. The discovery prompted the USEPA to ultimately extend water mains and connect 526 residences to City water at a cost of approximately \$4 million. The SER site was then added to the National Priorities List ("NPL"). After further IEPA study, the SER site was expanded to a ten square mile study area ("SER Study Area") that incorporates almost 20 percent of the City and includes the IPC site. Studies have since indicated the widespread presence of chlorinated solvents in groundwater within this ten square mile area, in concentrations varying from less than 10 ppb to over 10,000 ppb.

The SER ROD defines the boundary of the SER Site by the 10 ppb chlorinated VOC plume that extended to approximately 1,200 feet southeast of the IPC site at its closest point (as of 1993). It is reasonable to expect that parts of this plume have expanded to the extent that it now affects groundwater beneath the IPC site.

As discussed in the 1999 site ROD, there are/were also a number of other known groundwater contaminant sources located near the IPC site. For example, the former Mattison Machine Works is located approximately 1,000 feet to the northeast (i.e., upgradient). Previous studies at Mattison Machine Works dating back to 1993 indicate that a plume containing PCE (up to 10,600 ug/L), TCE (up to 1,500 ug/L), and 1,1,1-TCA (up to 800 ug/L) is/was passing under that facility. These concentrations are much higher than are in groundwater at IPC. In addition, the Peoples Avenue Landfill, located immediately southeast of IPC, was previously identified as the likely source of groundwater contamination that contributed to the deterioration of groundwater quality in one of the City of Rockford's public supply wells (Municipal Well No. 14), ultimately resulting in the abandonment of the supply well in 1971, prior to operations at IPC. The Peoples Avenue Landfill is also a known source of landfill gas (including methane) migration that previously entered the basement of the former Quaker Oats pet food manufacturing plant, located just southwest of the IPC site. And, as reported previously, there is evidence to suggest that landfill gas has impacted site monitoring well MW-4.

While remedial actions associated with some of the known sources within the SER Study Area are presently on-going, the IEPA and U.S. EPA have not specifically addressed some of the known groundwater contamination sources near to and upgradient of the IPC site. As indicated in the RI report and in the ROD, some of these sources contain elevated concentrations of VOCs, some of which are/were higher than those measured on-site.

As noted in the ROD,

*"One of the most notable outcomes of the groundwater portion of the [RI] investigation was verification that a plume of chlorinated volatile organic compounds, at substantially higher concentrations than occur on site is approaching the site from the north east. The plume is expected to reach the IPC site in 15 to 45 years."*

This is significant because, given that the RI data collection activities were completed by 1994, the "plume" would have possibly reached the site as early as 2009, resulting in degradation of site groundwater quality that is completely unrelated to the performance of the selected remedy and which could be attributed mistakenly to the site. As such, the interpretation of the results of long term natural attenuation monitoring must take into account the potential for groundwater quality degradation due to off-site sources. This approach reduces the possibility of incorrectly concluding that the selected remedy is insufficient and that the remedy must be supplemented with soil vapor extraction.

In fact, and as discussed in the First Year Annual Report/Technical Memorandum and the Second Year Annual Report, an upgradient plume appears to have arrived at the site. While the source of the plume is unknown, it is likely that it is the same one previously reported under the Mattison Machine Works property, and it is possible that the SER Site plume has also expanded

to the extent that it now affects groundwater quality at the IPC site. Regardless of the source, it is reasonable to expect that the plume will continue to migrate through the site until such time that the upgradient sources are either removed or isolated, eventually affecting the three downgradient site monitoring wells, and ultimately the two river wells. As such, there will likely be further groundwater quality degradation in the site monitoring wells and possible new groundwater quality degradation in the river wells that is completely unrelated to the site and to the performance of the selected remedy.

Therefore, the statistical analysis plan was developed such that it allowed for recalculation of background standards (as appropriate) and/or adjustment of the evaluation protocol in order to reduce the likelihood of false positive statistical failure related to the off-site sources. Since there is evidence to suggest that the upgradient plume has arrived, and in accordance with the IEPA-approved GWMP and the IEPA-approved First Year Annual Report/Technical Memorandum, revised calculated background standards and statistical evaluation criteria were included in the Second Year Annual Report for selected COCs. This report, therefore, includes statistical evaluations that are consistent with those originally provided in the IEPA-approved GWMP and First Year Annual Report/Technical Memorandum and as modified by the Second Year Annual Report.

#### **1.1.4 Remediation**

The IEPA selected the remedial alternative with the concurrence of the U.S. EPA and after a detailed analysis of the alternatives included in the approved Feasibility Study (FS). The selected remedial alternative addresses the principal threats by installation of an impermeable barrier over the site, placing institutional controls on future site uses, reinforcing existing city and state groundwater use restrictions, and addressing groundwater contamination resulting from the site by implementing a monitored natural attenuation program. The selected remedy also includes a soil vapor extraction component as a contingency should the IEPA conclude during the five year review periods that site and downgradient groundwater quality has not improved due to continued site releases which cannot be attributed to upgradient sources. However, the selected remedy does not take into consideration the potential affect of the numerous, known off-site impacts which now appear to be impacting site groundwater quality.

An SVE system was not included as an active part of the current remedy for a number of reasons, as discussed in the FS. First, the incremental improvement in reducing VOC migration to groundwater, and therefore in reducing risk to health and the environment, was deemed minimal following the construction of the surface barrier. Second, the treatment efficiency for an SVE system was not quantifiable given the relatively high VOC load currently on site and the on-going impacts from off-site sources. Finally, there were concerns that an SVE system would induce landfill gas migration from the Peoples Avenue Landfill that would adversely impact the operation of such a system. There were also concerns, discussed with the IEPA during the FS evaluation process, that such landfill gas migration would create a site health and safety issue related to possible explosive hazards.

Nothing has changed at the site that would alter the first criterion, above. The engineered barrier was installed and is being maintained, effectively eliminating both surface water infiltration and potential exposure to any remaining site contaminants. However, the predicted arrival of the

uncontrolled upgradient plume(s) is (are) degrading, and will likely continue to degrade, for an unknown period of time, groundwater quality beneath the engineered barrier. Groundwater quality degradation from the upgradient plume(s) can be expected to continue until the upgradient source(s) are either removed or are isolated, and there is presently no indication that there are either ongoing or planned efforts to address the uncontrolled sources. This has resulted in a situation in which the IPC Steering Committee's ability to incrementally evaluate IPC's contribution to groundwater degradation is now extremely difficult, if not impossible.

Regarding the second criterion, if there was formerly an inability to quantify the efficacy of an SVE system given the then-current contaminant loads, then the arrival of the off-site plume(s), which could effectively increase on-site contaminant load, would increase the inability to quantify the efficacy of an SVE system. For example, if an SVE system were installed and operated concurrent with the arrival of the upgradient plume, then it would be likely that the degrading effect of the plume would far outweigh the remedial effect of the SVE system.

Regarding the third criterion, the potential for an SVE system to induce off-site landfill gas migration appears to be quite real given the recent documentation showing that groundwater in MW4, located adjacent to the People's Avenue Landfill, already contains dissolved methane which is likely the result of landfill gas migration on to the site. It is reasonable to expect that if landfill gas can migrate to the site under current, passive conditions (i.e., with no SVE system), then there is a greatly increased likelihood of additional landfill gas migration under active conditions (i.e., with an active SVE system) with a corresponding potential increase in groundwater quality degradation and health and safety related issues associated with landfill gas explosive hazards.

Finally, it must be emphasized that the SVE system would be designed to reduce contaminant load in site soils and thus reduce the potential for contaminant migration from site soil to site groundwater, premised on the assumption that current groundwater impacts are generally a function of the current soil contaminant load. Given that the upgradient groundwater plume(s), which appears to have already reached the site, contains higher concentrations of some COCs than are currently in site groundwater, it is fair to expect that the upgradient source will be significantly larger and/or more heavily contaminated than what presently remains in site soil. Under these conditions the incremental improvement to site groundwater quality via the implementation of an SVE system will be immeasurable or nonexistent.

On the basis of these arguments, the IPC Steering Committee recommended previously (*River Well Statistics Technical Memorandum, June 1, 2010*), and continues to recommend, that the SVE system be excluded from further consideration as a contingent remedy.

The engineered barrier was completed in 2006. The groundwater monitoring natural attenuation program began in September 2007 and background data collection at the six site monitoring wells was completed in June 2008. The slight delay between the completion of the engineered barrier and the initiation of natural attenuation monitoring was based on the desire to complete the installation of the two river wells and to collect background data from them simultaneously with the six site monitoring wells. Unfortunately, the installation of the two river wells was delayed more than expected due to access issues beyond the control of the steering committee.

Therefore, after a period of time the IEPA requested that background data collection begin at the six site wells even though the two river wells had not been installed.

The two river wells were installed in March 2009 and background data collection was completed following the fourth quarter 2009 sampling event. The results of the river well background data collection and the calculated COC standards were provided to the IEPA on June 1, 2010. This report includes data collected through June 2010 (i.e., the fourth semiannual event at the site wells and the first semiannual event at the river wells).

## **1.2 Statistical Analysis Plan**

The statistical evaluation plan (STEP) was included in the IEPA-approved First Year Annual Report/Technical Memorandum and was specifically designed to allow for subsequent modification to account for the anticipated influences from off-site contaminant sources and to reduce the possibility that those influences could result in statistical failures. Due the apparent arrival of the off-site plume and the continued landfill-gas influences in MW4, the STEP was modified in the Second Year Annual Report as follows:

- Intrawell background standards were recalculated for 1,1-DCA in MW3 and for PCE and TCE in MW6 to account for the arrival of the off-site (upgradient) contaminant plume.
- Interwell background standards were recalculated for 1,1-DCA, PCE, and TCE in the three upgradient wells also to account for the arrival of the off-site (upgradient) contaminant plume.
- A statistical failure at MW4 would hereafter be based on a combined failure of an interwell *and* an intrawell background standard to reduce the possibility of a statistical failure due to landfill gas influences from the Peoples Avenue Landfill.

The evaluations included in this Fourth Year Annual Report are based on the modified STEP.

## **1.3 Fourth Year Annual Report Overview**

The purpose of this report is to provide the results of long-term natural attenuation monitoring to date at the site, a comparison of the data to previously calculated background groundwater quality standards, and an evaluation of whether the site is currently impacting groundwater. This report is organized as follows:

- Section 2.0 provides on evaluation of groundwater quality based on a comparison of COC detections with calculated COC background standards.
- Section 3.0 includes an alternative source demonstration (ASD) for various COCs detected in monitoring wells MW1 and MW4.
- Section 4.0 includes a summary and conclusions.

## **2.0 EVALUATION OF SITE GROUNDWATER QUALITY**

Background groundwater quality data collection was performed at the six site monitoring wells in accordance with the ROD, SOW, and IEPA-approved GWMP. A site-specific list of seven COCs was selected and background standards were calculated based on the first four quarters of background data collection. The COC list and calculated background standards were approved by IEPA. As discussed in detail in the Second Year Annual Report and summarized herein, selected background standards were recalculated in the upgradient wells to incorporate upgradient plume-affected data, and minor modifications were made to the statistical evaluation protocol, to reduce the possibility of future statistical failures based on influences from the upgradient plume.

Background data collection was completed in the two river wells following the fourth quarter 2009 sampling event. Specific COC background standards were calculated for both river wells and were submitted to IEPA on June 1, 2010 (*River Well Statistics Technical Memorandum*) and are the basis for the statistical comparisons included herein.

### **2.1 Site Groundwater Monitoring Network**

The site groundwater monitoring network consists of six monitoring wells, designated MW1, MW2, MW3, MW4, MW5, and MW6. The locations of these wells are shown on the figure included in Attachment 2. Each well is screened at a depth of approximately 60 feet within the shallow sand and gravel aquifer. Both regional and local groundwater flow in this aquifer is generally from northeast to southwest, towards the Rock River. Based on this groundwater flow direction, monitoring wells MW3, MW5, and MW6 are hydraulically upgradient of the site. The remaining three monitoring wells, MW1, MW2, and MW4 are hydraulically downgradient of the site.

### **2.2 River Wells**

Two river wells were installed in March 2009, as required, at the locations shown on the figure included in Attachment 2. The river wells are designated MW8 and MW9, and both were installed to a depth of approximately 19 feet. (Note: The designation MW7 is reserved for the “blind” duplicate sample submitted to the laboratory during each monitoring event). Based on current groundwater flow conditions, both river wells are hydraulically downgradient of the site.

### **2.3 Results of Ongoing Natural Attenuation Groundwater Monitoring**

Semiannual groundwater sampling for each of the seven COCs was performed in each of the site monitoring wells during this reporting period. Quarterly monitoring was performed at the two river wells through the background data collection period (ending in the fourth quarter 2009) and then continued on a semiannual basis. The laboratory data reports are included as Attachment 3. A summary of the analytical results for each COC in each monitoring well is included in the table in Attachment 4. The table in Attachment 4 also includes the calculated background standards. Concentration time trends for each COC in each well are included as Attachment 5.

Each laboratory data report was reviewed for completeness and accuracy, in accordance with the IEPA-approved quality assurance project plan (QAPP). The reviews included laboratory QA/QC documentation and the results of field and quality control blanks. Data validation summaries for each laboratory sampling report are included in Attachment 6.

A discussion of site groundwater quality is included below.

### **2.3.1 Upgradient Site Groundwater Quality**

Overall upgradient groundwater quality appears to have improved with respect to total VOC load during the past year. However, the concentrations of tetrachloroethene (PCE) appear to have increased in both upgradient wells MW3 and MW6 as has the concentration of trichloroethene (TCE) in well MW6. Similar to last year, the concentration of PCE in MW3 exceeded its calculated introwell standard during the most recent sampling event. This is consistent with the apparent arrival of the off-site, upgradient VOC plume, as reported previously. As stated in the ROD,

*“One of the most notable outcomes of the groundwater portion of the [RI] investigation was verification that a plume of chlorinated volatile organic compounds, at substantially higher concentrations than occur on site is approaching the site from the north east. The plume is expected to reach the IPC site in 15 to 45 years.”*

Given that the RI data collection activities were completed by 1994, arrival of the plume by 2009 is entirely consistent with the predictions included in the RI Report. This appears to be further supported by the total (i.e., cumulative) VOC load trends included as Attachment 7. As shown in the total VOC load time trends, the total (i.e., cumulative) VOC load is consistently higher in the three upgradient wells compared to the three downgradient wells, and the difference between the two has increased from 183 ug/L when natural attenuation monitoring began in September 2007 to 358 ug/L in the most recent sampling event, an increase of nearly 100 percent. Clearly, therefore, upgradient groundwater quality is worse than is downgradient groundwater quality based on total VOC load, and the difference between upgradient and downgradient groundwater quality has increased.

The IEPA requested in their August 26, 2009 Second Year Annual Report comment letter that a graph showing the sum of trichloroethene (TCE) and 1,1,1-trichloroethane (1,1,1-TCA) in the upgradient site wells compared with the sum in the downgradient site wells be included in the annual reports. Such a time trend is included in Attachment 8. As shown on the graph, the total concentrations of these two compounds have been consistently higher in the upgradient wells. The sum of TCE and 1,1,1-TCA in the upgradient wells has increased since natural attenuation monitoring began from 530 ug/L to 548 ug/L. During the same time period, however, and in spite of the arrival of the off-site plume, the sum of TCE and 1,1,1-TCA in the downgradient wells has decreased from 324 ug/L (to 203 ug/L, a decrease of over 37 percent. It is also relevant to note that the sum of TCE and 1,1,1-TCA in the downgradient wells has decreased for four consecutive semi-annual monitoring events. And finally, the difference between the cumulative upgradient sums and the cumulative downgradient sums has increased from approximately 206 ug/L when natural attenuation monitoring began to 345 ug/L, an increase of

over 67 percent. Based on this comparison alone, there is evidence that groundwater quality has improved downgradient of the site compared to upgradient of the site.

Strictly speaking and consistent with the IEPA-approved statistical analysis plan, an intrawell exceedance in an upgradient well is evidence of groundwater degradation due to an off-site source and is, therefore, grounds for recalculating the intrawell background standard. However, given that there is presently only one upgradient intrawell exceedance and the relatively stable total VOC load, we do not think that any further upgradient intrawell background standard revisions are appropriate at this time.

### ***2.3.2 Downgradient Site Groundwater Quality***

Downgradient groundwater quality in the three site wells continues to improve. Total VOC load in the downgradient wells, depicted in the time trends included as Attachment 7, has decreased during four consecutive monitoring events and is presently at 696 ug/L compared to 990 ug/L when natural attenuation monitoring began, a decrease of about 30 percent.

There were two interwell exceedances in MW4; one for 1,1-DCA and one for vinyl chloride and consistent with that reported in previous years. However, neither concentration exceeded its respective intrawell background standard and, therefore, does not represent a statistical failure. The presence of both these compounds at relatively high concentrations (compared to the other site monitoring wells) was reported previously in the First Year Annual Report/Technical Memorandum and was attributed to landfill gas from a known off-site/side gradient and uncontained source, the Peoples Avenue Landfill. This was the primary motivation behind our initial request to exclude these two compounds from long-term natural attenuation monitoring, which was denied by IEPA.

In addition, and similar to last year, 1,1-DCA in well MW1 exceeded its calculated interwell standard by 1 ug/L.

This report includes an alternative source demonstration (ASD) for these exceedances in Section 3.0.

### ***2.3.3 Downgradient River Well Groundwater Quality***

There were no VOCs detected in river well MW9, consistent with that reported last year. Three VOCs, 1,1-DCA, trichloroethene, and cis 1,2-DCE, were detected in MW8 during the most recent monitoring event. However, the concentrations were generally much less than in most of the site wells, more than an order of magnitude less than in half the site wells. Therefore, there is no indication of site-related groundwater impacts in the river wells.

### **3.0 ALTERNATIVE SOURCE DEMONSTRATION FOR COCS DETECTED IN SITE MONITORING WELLS MW1 AND MW4**

Groundwater samples collected during the quarterly background monitoring were also analyzed for dissolved methane, specifically during the third quarter 2008 monitoring event, and as reported previously in the First Year Annual Report/Technical Memorandum. Dissolved methane, a major component of landfill gas, was detected in five of the six site monitoring wells as summarized in the table below.

Results of Dissolved Methane Analyses

| Sample Location | Concentration of Dissolved Methane (ug/L) | Reporting Limit (ug/L) |
|-----------------|---|------------------------|
| MW1             | 2.1                                       | 0.19                   |
| MW2             | 2.1                                       | 0.19                   |
| MW3             | 4.1                                       | 0.19                   |
| MW4             | 42  | 0.19                   |
| MW5             | ND  | 0.19                   |
| MW6             | 1.2                                       | 0.19                   |
| MW7*            | 1.3                                       | 0.19                   |
| Field blank     | ND  | 0.19                   |
| Trip blank      | ND  | 0.19                   |

ND = not detected at the reporting limit

\* “blind” duplicate sample collected from MW6

#### **3.1 Sources of Naturally Occurring Dissolved Methane**

The relatively low dissolved methane concentrations in four of the wells may be indicative of methanogenesis, a naturally occurring form of anaerobic respiration associated with certain common microbes in the presence of organic material. Subsurface soil at the site was reported in the RI report to have contained relatively high concentrations of total organic carbon (TOC). Given that the recently constructed site cap has likely created subsurface anaerobic conditions, the presence of an abundant “food” source (i.e., the high TOC), it is not unreasonable to assume that methanogenesis is occurring. Therefore, the site-wide presence of relatively low concentrations of dissolved methane could indicate that natural attenuation is active.

#### **3.2 Off-Site Sources of Dissolved Methane**

The Peoples Avenue Landfill is located adjacent to and south/southeast of the site, and reportedly received a combination of residential, commercial, and industrial wastes. The combustible gas methane was previously detected in the basement of the adjacent pet food plant, and it was attributed to the Peoples Avenue Landfill (USEPA, 1976; RI Report, 1994). Two isolated areas with elevated combustible gas readings (i.e., methane) were also identified between the site and the Peoples Avenue Landfill during RI activities conducted in the early

1990's. Soil gas collected from these areas also contained slightly elevated concentrations of VOCs. The conclusion contained in the RI was:

*"The USEPA and RI soil gas results indicate, therefore, that the Peoples Avenue Landfill may be an active source of combustible gases and, possibly, organic vapors in the Site area."*

Landfill gas migration is a commonly known transport mechanism for numerous VOCs including tetrachloroethene, trichloroethene, cis-1,2-dichloroethene, vinyl chloride, and others (Vogel et al., 1987). As such, landfill gas migration has been implicated to be a principal source of many VOCs, including those currently detected in site groundwater, in groundwater near landfills.

While dissolved methane was discovered in most of the site monitoring wells, the concentrations were relatively low and, therefore, are likely at least partially the result of on-site methanogenesis.

#### *MW4*

The concentrations of 1,1-DCA and vinyl chloride continue to exceed their respective interwell background standards in MW4. However, the concentrations do not exceed their respective introwell background standards. As such, the concentrations do not constitute a statistical failure and, strictly speaking, are not subject to an Alternative Source Demonstration. However, the following information is provided for informational purposes.

Given that MW4 is located adjacent to the Peoples Avenue Landfill and it contains, by far, the highest concentration of dissolved methane compared to the other wells, it is highly likely that landfill gas from the Peoples Avenue Landfill is the source for much or all of the dissolved methane in MW4. This is consistent with the previous reports documented herein. And given that landfill gas is a common carrier of numerous VOCs, including 1,1-DCA and vinyl chloride, it is fair to conclude that the elevated concentrations of 1,1-DCA and vinyl chloride in MW4 are also the result of the presence of landfill gas.

It is important to note that neither 1,1-DCA nor vinyl chloride are exhibiting increasing trends in MW4, and concentrations are well within the range of those detected since the beginning of natural attenuation monitoring. More importantly, the total VOC load in MW4 has continued to decrease from a high of 389 ug/L in December 2007 to its lowest point of 201 ug/L during the most recent sampling event, a drop of over 48 percent. In summary, therefore, there is no indication that groundwater conditions on MW4 are deteriorating due to the site and, in fact, it appears that overall groundwater conditions have improved.

#### *MW1*

Similar to last year, the concentration of 1,1-DCA also exceeded its respective interwell background standard in MW1 during the last sampling event. 1,1-DCA is a breakdown product of 1,1,1-TCA. The concentration of 1,1,1-TCA has decreased from a high of 13 ug/L to non-detect (reporting limit of 5 ug/L). As such, the increasing concentration of 1,1-DCA may simply be the result of the breakdown of 1,1,1-TCA. This explanation is supported by the fact that the

total VOC load in MW1 has decreased from a high of approximately 336 ug/L in June 2008 to 205 ug/L during the most recent sampling event, a decrease of nearly 40 percent.

It is also possible that landfill gas has also affected groundwater conditions in this well and have thus biased the concentration of 1,1-DCA, as indicated by the presence of dissolved methane in groundwater at this well. Other known (or unknown) upgradient sources may also be contributing sources. While MW1 is technically a downgradient well, it is located such that it could easily be considered sidegradient. Based on the location of MW1, it is easy to see that a plume migrating from the northeast or from the adjacent quarry could, potentially, impact MW1 while not affecting the upgradient wells.

In any case, overall groundwater conditions have clearly improved in MW1 with respect to total VOC load and there is no indication of site-related degradation in groundwater quality at this well.

#### **4.0 SUMMARY AND CONCLUSIONS**

The results of long-term natural attenuation monitoring to date indicate that total (i.e., cumulative) VOC load in the downgradient wells has decreased during the last four consecutive semi-annual monitoring events and is presently at its lowest concentration since natural attenuation monitoring began in 2007. There does not appear to be any site-related groundwater degradation in either the site monitoring wells or in the river wells. The affects from the arrival of the upgradient plume appear to have generally stabilized for the moment, and the revised statistical standards and evaluation protocol appear to have satisfactorily addressed the impacts associated with the off-site plume and no further statistical evaluation revisions are currently recommended. However, it is reasonable to assume that the off-site plume will eventually migrate through the site and impact the downgradient monitoring wells, possibly resulting in new "false-positive" statistical failures that will need to be addressed either by revising calculated background standards or by changing the statistical evaluation protocol (or both).

While on-site methanogenesis is likely occurring, indicating that natural attenuation is active, the relatively high (i.e., anomalous) concentrations of dissolved methane in downgradient well MW4 appear to be the result of landfill gas migration from the Peoples Avenue Landfill. It is likely that the associated relatively high concentrations of 1,1-DCA and vinyl chloride in MW4 are the result of the presence of landfill gas and are not site-related. It is also likely that the presence of these compounds in other site wells are biased high due to the presence of landfill gas.

We look forward to the IEPA's approval of this report. If you have any questions, please do not hesitate to call me at 630 834-8847.

Sincerely,  
ENVIRONMENTAL INFORMATION LOGISTICS, LLC



A. Michael Hirt, P.G.  
Senior Geologist

#### **References**

Golder Associates, Inc., 1994, Final Remedial Investigation Report, Interstate Pollution Control Inc. Site, Rockford, Illinois.

USEPA, 1976, *Leachate Damage Assessment: Case Study of the Peoples Avenue Landfill Solid Waste Disposal Site in Rockford, Illinois*, EPA/530/SW-517.

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Vogel et al., 1987, *Transformation of Halogenated Aliphatic Compounds*, Environmental Science Technology, vol. 21, pp. 722-736.

**Attachment 1**

**Site Location and Detail Maps**

**Attachment 2**

**Figure Showing the Locations of the Long-Term Natural Attenuation Monitoring Wells**

**Attachment 3**  
**Laboratory Data Reports**

**Attachment 4**

**Data Summary Table**

**Attachment 5**

**COC Concentration Time Trends**

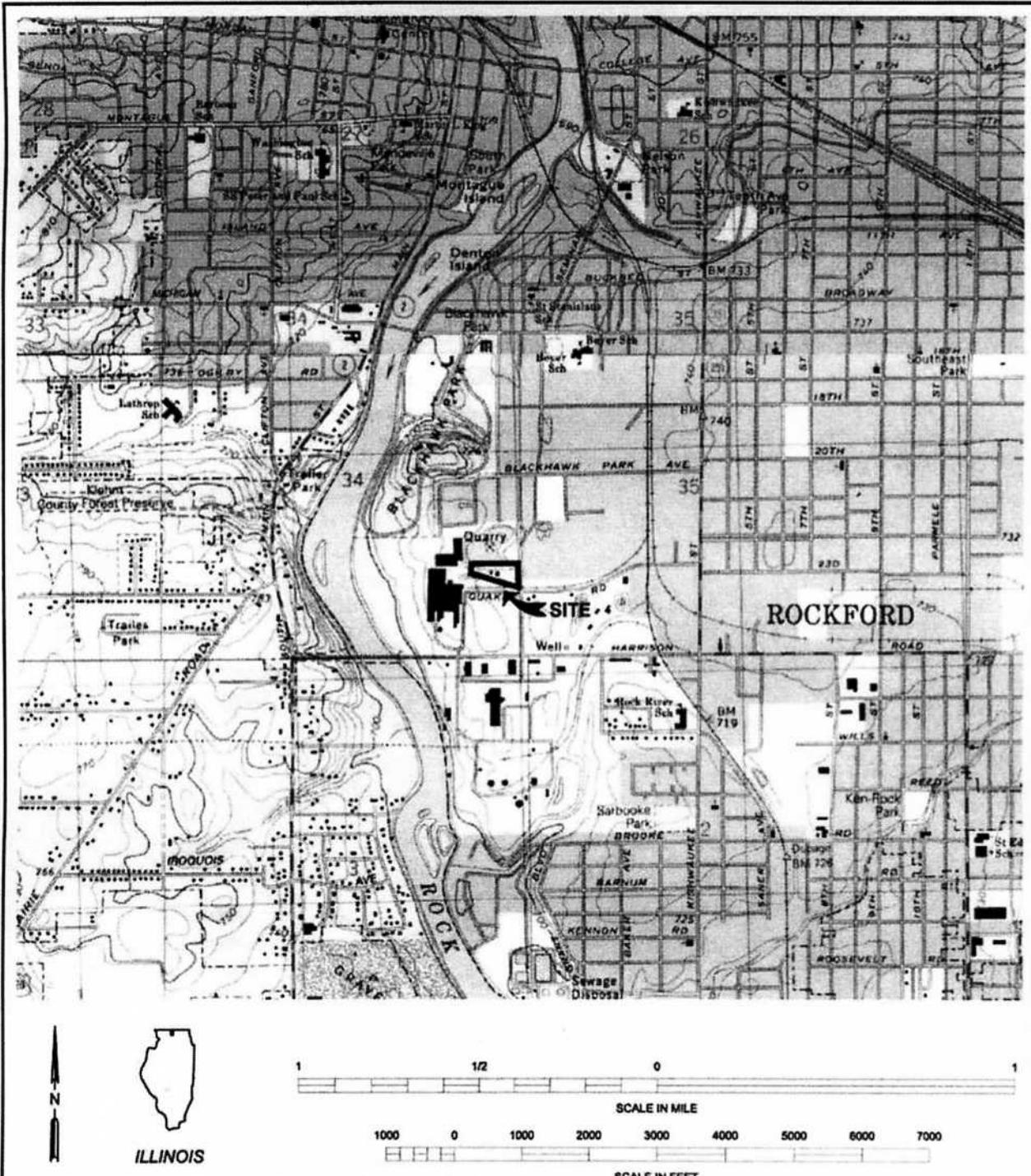
**Attachment 6**  
**Data Validation Summaries**

**Attachment 7**

**Total VOC Load Concentration Time Trends**

**Attachment 8**

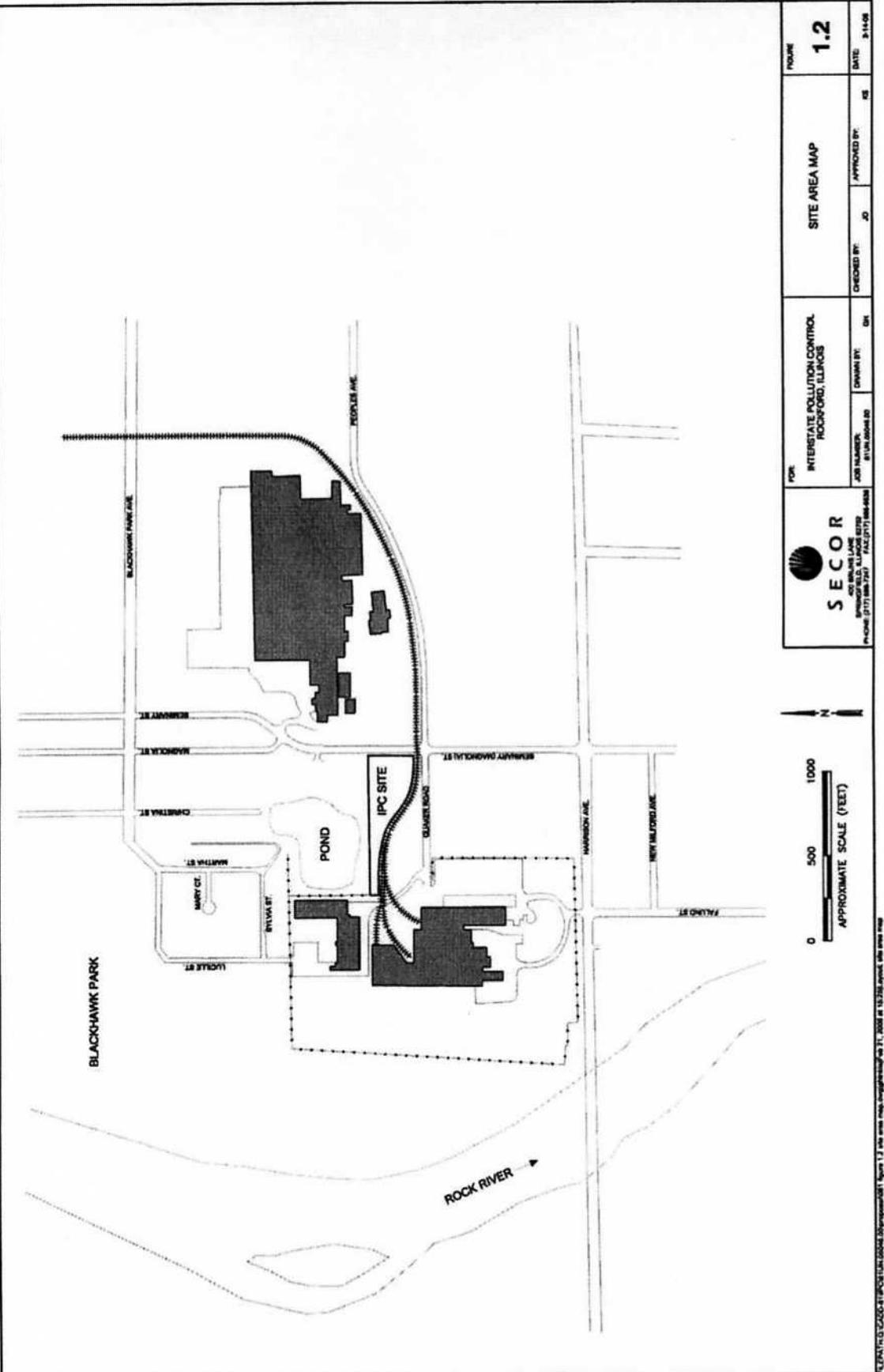
**Total VOC Load Trends (1,1,1-TCA plus TCE only)**



REFERENCE: USGS 7.5 MINUTE QUADRANGLE; Rockford, IL North & South  
Photorevised 1993

|   |  |                              |                 |                   |                    |                  |
|---|--|------------------------------|-----------------|-------------------|--------------------|------------------|
| <br><b>SECOR</b><br>400 BRUNS LANE<br>SPRINGFIELD, ILLINOIS 62702<br>PHONE: (217) 598-7247 FAX: (217) 598-8538 | FOR:<br><br>INTERSTATE POLLUTION CONTROL<br>ROCKFORD, ILLINOIS | SITE LOCATION MAP            |                 |                   |                    | FIGURE           |
|   |  | JOB NUMBER:<br>61UN.05048.00 | DRAWN BY:<br>GH | CHECKED BY:<br>JO | APPROVED BY:<br>KS | DATE:<br>2-14-06 |

FILEPATH:Q:\CADD\61VPC\61UN.05048.00\proposal\061 figure 1.1 site location map.dwg[ghinkel]Feb 21, 2006 at 15:26\Layout\site loc



PERMIT TO DISCHARGE TO PUBLIC SOURCE APPROVED BY: SECOR CORPORATION, 8/14/08, ID: 1.2, FOR THE ROCK RIVER, SECTION 13, IN THE STATE OF ILLINOIS.

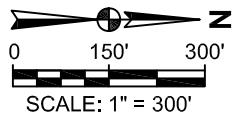


## LEGEND

- - - - - IPC APPROXIMATE SITE BOUNDARY
- MW LONG-TERM NATURAL ATTENUATION MONITORING WELL LOCATIONS

## NOTES

1. AERIAL PHOTO PROVIDED BY WINNEBAGO COUNTY GEOGRAPHIC INFORMATION SYSTEM (WINGIS).



SCALE: 1" = 300'

PREPARED BY



PREPARED FOR

INTERSTATE  
POLLUTION  
CONTROL

070309

**FIGURE 1**  
**LONG-TERM NATURAL ATTENUATION**  
**MONITORING WELL LOCATIONS**  
INTERSTATE POLLUTION CONTROL  
ROCKFORD, ILLINOIS

JULY 2009

## ANALYTICAL REPORT

Job Number: 500-29935-1

Job Description: Interstate Pollution Control Site

For:

Environmental Information Logistics (EIL)  
975 Burton Street  
Unit 10  
Beloit, WI 53511

Attention: Ms. Mary Pearson



Approved for release.  
Richard C Wright  
Project Manager II  
12/29/2010 11:09 AM

Richard C Wright  
Project Manager II  
[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)  
12/29/2010

These test results meet all the requirements of NELAC for accredited parameters.

The Lab Certification ID#:  
TestAmerica Chicago 100201

All questions regarding this test report should be directed to the TestAmerica Project Manager whose signature appears on this report. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

TestAmerica Laboratories, Inc.

TestAmerica Chicago 2417 Bond Street, University Park, IL 60484  
Tel (708) 534-5200 Fax (708) 534-5211 [www.testamericainc.com](http://www.testamericainc.com)



**Job Narrative**  
**500-29935-1**

**Comments**

No additional comments.

**Receipt**

All samples were received in good condition within temperature requirements.

**GC/MS VOA**

Method(s) 8260B: The laboratory control sample (LCS) for batch 102231 had the following analyte outside the in-house generated QC limit: 1,1,2-Trichloroethane.

No other analytical or quality issues were noted.

## EXECUTIVE SUMMARY - Detections

Client: Environmental Information Logistics (EIL)

Job Number: 500-29935-1

| Lab Sample ID<br>Analyte      | Client Sample ID | Result / Qualifier | Reporting Limit | Units | Method |
|-------------------------------|------------------|--------------------|-----------------|-------|--------|
| <b>500-29935-1 IPC GW MW5</b> |                  |                    |                 |       |        |
| Vinyl chloride                |                  | 3.8                | 2.0             | ug/L  | 8260B  |
| 1,1-Dichloroethene            |                  | 22                 | 5.0             | ug/L  | 8260B  |
| 1,1-Dichloroethane            |                  | 6.5                | 5.0             | ug/L  | 8260B  |
| cis-1,2-Dichloroethene        |                  | 110                | 50              | ug/L  | 8260B  |
| 1,1,1-Trichloroethane         |                  | 24                 | 5.0             | ug/L  | 8260B  |
| Trichloroethene               |                  | 150                | 50              | ug/L  | 8260B  |
| Tetrachloroethene             |                  | 38                 | 5.0             | ug/L  | 8260B  |
| <b>500-29935-2 IPC GW MW6</b> |                  |                    |                 |       |        |
| Vinyl chloride                |                  | 12                 | 2.0             | ug/L  | 8260B  |
| 1,1-Dichloroethene            |                  | 19                 | 5.0             | ug/L  | 8260B  |
| 1,1-Dichloroethane            |                  | 6.8                | 5.0             | ug/L  | 8260B  |
| cis-1,2-Dichloroethene        |                  | 110                | 50              | ug/L  | 8260B  |
| 1,1,1-Trichloroethane         |                  | 23                 | 5.0             | ug/L  | 8260B  |
| Trichloroethene               |                  | 110                | 50              | ug/L  | 8260B  |
| Tetrachloroethene             |                  | 27                 | 5.0             | ug/L  | 8260B  |
| <b>500-29935-3 IPC GW MW8</b> |                  |                    |                 |       |        |
| 1,1-Dichloroethene            |                  | 5.0                | 5.0             | ug/L  | 8260B  |
| 1,1-Dichloroethane            |                  | 14                 | 5.0             | ug/L  | 8260B  |
| cis-1,2-Dichloroethene        |                  | 29                 | 5.0             | ug/L  | 8260B  |
| 1,1,1-Trichloroethane         |                  | 5.3                | 5.0             | ug/L  | 8260B  |
| Trichloroethene               |                  | 40                 | 5.0             | ug/L  | 8260B  |
| <b>500-29935-5 IPC GW MW7</b> |                  |                    |                 |       |        |
| Vinyl chloride                |                  | 15                 | 2.0             | ug/L  | 8260B  |
| 1,1-Dichloroethene            |                  | 9.8                | 5.0             | ug/L  | 8260B  |
| 1,1-Dichloroethane            |                  | 15                 | 5.0             | ug/L  | 8260B  |
| cis-1,2-Dichloroethene        |                  | 120                | 50              | ug/L  | 8260B  |
| Trichloroethene               |                  | 13                 | 5.0             | ug/L  | 8260B  |
| <b>500-29935-6 IPC GW MW4</b> |                  |                    |                 |       |        |
| Vinyl chloride                |                  | 59                 | 2.0             | ug/L  | 8260B  |
| 1,1-Dichloroethene            |                  | 8.1                | 5.0             | ug/L  | 8260B  |
| 1,1-Dichloroethane            |                  | 14                 | 5.0             | ug/L  | 8260B  |
| cis-1,2-Dichloroethene        |                  | 110                | 10              | ug/L  | 8260B  |
| 1,1,1-Trichloroethane         |                  | 13                 | 5.0             | ug/L  | 8260B  |

## EXECUTIVE SUMMARY - Detections

Client: Environmental Information Logistics (EIL)

Job Number: 500-29935-1

| Lab Sample ID<br>Analyte               | Client Sample ID | Result / Qualifier | Reporting Limit | Units | Method |
|--|------------------|--------------------|-----------------|-------|--------|
| <b>500-29935-7      IPC GW MW3</b>     |                  |                    |                 |       |        |
| 1,1-Dichloroethene                     |                  | 20                 | 5.0             | ug/L  | 8260B  |
| cis-1,2-Dichloroethene                 |                  | 46                 | 5.0             | ug/L  | 8260B  |
| 1,1,1-Trichloroethane                  |                  | 22                 | 5.0             | ug/L  | 8260B  |
| Trichloroethene                        |                  | 180                | 50              | ug/L  | 8260B  |
| Tetrachloroethene                      |                  | 37                 | 5.0             | ug/L  | 8260B  |
| <br><b>500-29935-8      IPC GW MW2</b> |                  |                    |                 |       |        |
| 1,1-Dichloroethene                     |                  | 22                 | 5.0             | ug/L  | 8260B  |
| cis-1,2-Dichloroethene                 |                  | 56                 | 5.0             | ug/L  | 8260B  |
| 1,1,1-Trichloroethane                  |                  | 21                 | 5.0             | ug/L  | 8260B  |
| Trichloroethene                        |                  | 200                | 50              | ug/L  | 8260B  |
| Tetrachloroethene                      |                  | 38                 | 5.0             | ug/L  | 8260B  |
| <br><b>500-29935-9      IPC GW MW1</b> |                  |                    |                 |       |        |
| Vinyl chloride                         |                  | 16                 | 2.0             | ug/L  | 8260B  |
| 1,1-Dichloroethene                     |                  | 9.3                | 5.0             | ug/L  | 8260B  |
| 1,1-Dichloroethane                     |                  | 14                 | 5.0             | ug/L  | 8260B  |
| cis-1,2-Dichloroethene                 |                  | 130                | 10              | ug/L  | 8260B  |
| Trichloroethene                        |                  | 13                 | 5.0             | ug/L  | 8260B  |

## METHOD SUMMARY

Client: Environmental Information Logistics (EIL)

Job Number: 500-29935-1

| Description  | Lab Location       | Method                     | Preparation Method |
|--|--------------------|----------------------------|--------------------|
| <b>Matrix: Water</b>                                 |                    |                            |                    |
| Volatile Organic Compounds (GC/MS)<br>Purge and Trap | TAL CHI<br>TAL CHI | SW846 8260B<br>SW846 5030B |                    |
|  |                    |                            |                    |

**Lab References:**

TAL CHI = TestAmerica Chicago

**Method References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

## METHOD / ANALYST SUMMARY

Client: Environmental Information Logistics (EIL)

Job Number: 500-29935-1

| Method      | Analyst          | Analyst ID |
|-------------|------------------|------------|
| SW846 8260B | Alikpala, Elaine | EA         |
| SW846 8260B | Manzano, Louis   | LM         |

## SAMPLE SUMMARY

Client: Environmental Information Logistics (EIL)

Job Number: 500-29935-1

| Lab Sample ID  | Client Sample ID | Client Matrix | Date/Time Sampled | Date/Time Received |
|----------------|------------------|---------------|-------------------|--------------------|
| 500-29935-1    | IPC GW MW5       | Water         | 12/16/2010 1024   | 12/17/2010 1030    |
| 500-29935-1MS  | IPC GW MW5       | Water         | 12/16/2010 1024   | 12/17/2010 1030    |
| 500-29935-1MSD | IPC GW MW5       | Water         | 12/16/2010 1024   | 12/17/2010 1030    |
| 500-29935-2    | IPC GW MW6       | Water         | 12/16/2010 1102   | 12/17/2010 1030    |
| 500-29935-3    | IPC GW MW8       | Water         | 12/16/2010 1215   | 12/17/2010 1030    |
| 500-29935-4    | IPC GW MW9       | Water         | 12/16/2010 1237   | 12/17/2010 1030    |
| 500-29935-5    | IPC GW MW7       | Water         | 12/16/2010 1255   | 12/17/2010 1030    |
| 500-29935-6    | IPC GW MW4       | Water         | 12/16/2010 1329   | 12/17/2010 1030    |
| 500-29935-7    | IPC GW MW3       | Water         | 12/16/2010 1407   | 12/17/2010 1030    |
| 500-29935-8    | IPC GW MW2       | Water         | 12/16/2010 1432   | 12/17/2010 1030    |
| 500-29935-9    | IPC GW MW1       | Water         | 12/16/2010 1504   | 12/17/2010 1030    |
| 500-29935-10   | IPC GW FB        | Water         | 12/16/2010 1510   | 12/17/2010 1030    |
| 500-29935-11   | TRIP BLANK       | Water         | 12/16/2010 0000   | 12/17/2010 1030    |

# **SAMPLE RESULTS**

Ms. Mary Pearson  
 Environmental Information Logistics (EIL)  
 975 Burton Street  
 Unit 10  
 Beloit, WI 53511

Job Number: 500-29935-1

**Client Sample ID:** IPC GW MW5  
**Lab Sample ID:** 500-29935-1

Date Sampled: 12/16/2010 1024  
 Date Received: 12/17/2010 1030  
 Client Matrix: Water

| Analyte                      | Result/Qualifier | Unit | MDL            | RL                | Dilution |
|------------------------------|------------------|------|----------------|-------------------|----------|
| <b>Method: 8260B</b>         |                  |      | Date Analyzed: | 12/21/2010 1442   |          |
| <b>Prep Method: 5030B</b>    |                  |      | Date Prepared: | 12/21/2010 1442   |          |
| Benzene                      | <5.0             | ug/L | 0.17           | 5.0               | 1.0      |
| Chloromethane                | <5.0             | ug/L | 0.24           | 5.0               | 1.0      |
| Vinyl chloride               | 3.8              | ug/L | 0.20           | 2.0               | 1.0      |
| Bromomethane                 | <5.0             | ug/L | 0.38           | 5.0               | 1.0      |
| Chloroethane                 | <5.0             | ug/L | 0.36           | 5.0               | 1.0      |
| 1,1-Dichloroethene           | 22               | ug/L | 0.19           | 5.0               | 1.0      |
| Carbon disulfide             | <5.0             | ug/L | 0.55           | 5.0               | 1.0      |
| Acetone                      | <20              | ug/L | 1.6            | 20                | 1.0      |
| Methylene Chloride           | <10              | ug/L | 0.67           | 10                | 1.0      |
| trans-1,2-Dichloroethene     | <5.0             | ug/L | 0.32           | 5.0               | 1.0      |
| 1,1-Dichloroethane           | 6.5              | ug/L | 0.25           | 5.0               | 1.0      |
| Methyl Ethyl Ketone          | <20              | ug/L | 2.3            | 20                | 1.0      |
| Chloroform                   | <5.0             | ug/L | 0.15           | 5.0               | 1.0      |
| 1,1,1-Trichloroethane        | 24               | ug/L | 0.18           | 5.0               | 1.0      |
| Carbon tetrachloride         | <5.0             | ug/L | 0.25           | 5.0               | 1.0      |
| 1,2-Dichloroethane           | <5.0             | ug/L | 0.24           | 5.0               | 1.0      |
| 1,2-Dichloropropane          | <5.0             | ug/L | 0.21           | 5.0               | 1.0      |
| Bromodichloromethane         | <5.0             | ug/L | 0.19           | 5.0               | 1.0      |
| cis-1,3-Dichloropropene      | <5.0             | ug/L | 0.17           | 5.0               | 1.0      |
| methyl isobutyl ketone       | <20              | ug/L | 0.84           | 20                | 1.0      |
| Toluene                      | <5.0             | ug/L | 0.19           | 5.0               | 1.0      |
| trans-1,3-Dichloropropene    | <5.0             | ug/L | 0.24           | 5.0               | 1.0      |
| 1,1,2-Trichloroethane        | <5.0             | ug/L | 0.26           | 5.0               | 1.0      |
| Tetrachloroethene            | 38               | ug/L | 0.22           | 5.0               | 1.0      |
| 2-Hexanone                   | <20              | ug/L | 0.80           | 20                | 1.0      |
| Dibromochloromethane         | <5.0             | ug/L | 0.25           | 5.0               | 1.0      |
| Chlorobenzene                | <5.0             | ug/L | 0.17           | 5.0               | 1.0      |
| Ethylbenzene                 | <5.0             | ug/L | 0.18           | 5.0               | 1.0      |
| Styrene                      | <5.0             | ug/L | 0.15           | 5.0               | 1.0      |
| Bromoform                    | <5.0             | ug/L | 0.42           | 5.0               | 1.0      |
| 1,1,2,2-Tetrachloroethane    | <5.0             | ug/L | 0.29           | 5.0               | 1.0      |
| Xylenes, Total               | <5.0             | ug/L | 0.32           | 5.0               | 1.0      |
| Surrogate                    |                  |      |                | Acceptance Limits |          |
| 1,2-Dichloroethane-d4 (Surr) | 102              | %    |                | 80 - 129          |          |
| Toluene-d8 (Surr)            | 103              | %    |                | 80 - 120          |          |
| 4-Bromofluorobenzene (Surr)  | 96               | %    |                | 80 - 115          |          |
| Dibromofluoromethane         | 96               | %    |                | 80 - 124          |          |

**Method: 8260B Run Type: DL**

Date Analyzed: 12/19/2010 2321

Ms. Mary Pearson  
Environmental Information Logistics (EIL)  
975 Burton Street  
Unit 10  
Beloit, WI 53511

Job Number: 500-29935-1

**Client Sample ID:** IPC GW MW5  
**Lab Sample ID:** 500-29935-1

Date Sampled: 12/16/2010 1024  
Date Received: 12/17/2010 1030  
Client Matrix: Water

| Analyte                      | Result/Qualifier | Unit | MDL            | RL                | Dilution |
|------------------------------|------------------|------|----------------|-------------------|----------|
| <b>Prep Method: 5030B</b>    |                  |      | Date Prepared: | 12/19/2010 2321   |          |
| cis-1,2-Dichloroethene       | 110              | ug/L | 2.7            | 50                | 10       |
| Trichloroethene              | 150              | ug/L | 2.4            | 50                | 10       |
| Surrogate                    |                  |      |                | Acceptance Limits |          |
| 1,2-Dichloroethane-d4 (Surr) | 113              | %    |                | 80 - 129          |          |
| Toluene-d8 (Surr)            | 104              | %    |                | 80 - 120          |          |
| 4-Bromofluorobenzene (Surr)  | 101              | %    |                | 80 - 115          |          |
| Dibromofluoromethane         | 100              | %    |                | 80 - 124          |          |

Ms. Mary Pearson  
 Environmental Information Logistics (EIL)  
 975 Burton Street  
 Unit 10  
 Beloit, WI 53511

Job Number: 500-29935-1

**Client Sample ID: IPC GW MW6**  
**Lab Sample ID: 500-29935-2**

Date Sampled: 12/16/2010 1102  
 Date Received: 12/17/2010 1030  
 Client Matrix: Water

| Analyte                      | Result/Qualifier | Unit | MDL            | RL                | Dilution |
|------------------------------|------------------|------|----------------|-------------------|----------|
| <b>Method: 8260B</b>         |                  |      | Date Analyzed: | 12/21/2010 1547   |          |
| <b>Prep Method: 5030B</b>    |                  |      | Date Prepared: | 12/21/2010 1547   |          |
| Benzene                      | <5.0             | ug/L | 0.17           | 5.0               | 1.0      |
| Chloromethane                | <5.0             | ug/L | 0.24           | 5.0               | 1.0      |
| Vinyl chloride               | 12               | ug/L | 0.20           | 2.0               | 1.0      |
| Bromomethane                 | <5.0             | ug/L | 0.38           | 5.0               | 1.0      |
| Chloroethane                 | <5.0             | ug/L | 0.36           | 5.0               | 1.0      |
| 1,1-Dichloroethene           | 19               | ug/L | 0.19           | 5.0               | 1.0      |
| Carbon disulfide             | <5.0             | ug/L | 0.55           | 5.0               | 1.0      |
| Acetone                      | <20              | ug/L | 1.6            | 20                | 1.0      |
| Methylene Chloride           | <10              | ug/L | 0.67           | 10                | 1.0      |
| trans-1,2-Dichloroethene     | <5.0             | ug/L | 0.32           | 5.0               | 1.0      |
| 1,1-Dichloroethane           | 6.8              | ug/L | 0.25           | 5.0               | 1.0      |
| Methyl Ethyl Ketone          | <20              | ug/L | 2.3            | 20                | 1.0      |
| Chloroform                   | <5.0             | ug/L | 0.15           | 5.0               | 1.0      |
| 1,1,1-Trichloroethane        | 23               | ug/L | 0.18           | 5.0               | 1.0      |
| Carbon tetrachloride         | <5.0             | ug/L | 0.25           | 5.0               | 1.0      |
| 1,2-Dichloroethane           | <5.0             | ug/L | 0.24           | 5.0               | 1.0      |
| 1,2-Dichloropropane          | <5.0             | ug/L | 0.21           | 5.0               | 1.0      |
| Bromodichloromethane         | <5.0             | ug/L | 0.19           | 5.0               | 1.0      |
| cis-1,3-Dichloropropene      | <5.0             | ug/L | 0.17           | 5.0               | 1.0      |
| methyl isobutyl ketone       | <20              | ug/L | 0.84           | 20                | 1.0      |
| Toluene                      | <5.0             | ug/L | 0.19           | 5.0               | 1.0      |
| trans-1,3-Dichloropropene    | <5.0             | ug/L | 0.24           | 5.0               | 1.0      |
| 1,1,2-Trichloroethane        | <5.0             | ug/L | 0.26           | 5.0               | 1.0      |
| Tetrachloroethene            | 27               | ug/L | 0.22           | 5.0               | 1.0      |
| 2-Hexanone                   | <20              | ug/L | 0.80           | 20                | 1.0      |
| Dibromochloromethane         | <5.0             | ug/L | 0.25           | 5.0               | 1.0      |
| Chlorobenzene                | <5.0             | ug/L | 0.17           | 5.0               | 1.0      |
| Ethylbenzene                 | <5.0             | ug/L | 0.18           | 5.0               | 1.0      |
| Styrene                      | <5.0             | ug/L | 0.15           | 5.0               | 1.0      |
| Bromoform                    | <5.0             | ug/L | 0.42           | 5.0               | 1.0      |
| 1,1,2,2-Tetrachloroethane    | <5.0             | ug/L | 0.29           | 5.0               | 1.0      |
| Xylenes, Total               | <5.0             | ug/L | 0.32           | 5.0               | 1.0      |
| Surrogate                    |                  |      |                | Acceptance Limits |          |
| 1,2-Dichloroethane-d4 (Surr) | 109              | %    |                | 80 - 129          |          |
| Toluene-d8 (Surr)            | 102              | %    |                | 80 - 120          |          |
| 4-Bromofluorobenzene (Surr)  | 97               | %    |                | 80 - 115          |          |
| Dibromofluoromethane         | 98               | %    |                | 80 - 124          |          |

**Method: 8260B Run Type: DL**

Date Analyzed: 12/20/2010 0004

Ms. Mary Pearson  
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Job Number: 500-29935-1

**Client Sample ID:** IPC GW MW6  
**Lab Sample ID:** 500-29935-2

Date Sampled: 12/16/2010 1102  
Date Received: 12/17/2010 1030  
Client Matrix: Water

| Analyte                      | Result/Qualifier | Unit | MDL            | RL                | Dilution |
|------------------------------|------------------|------|----------------|-------------------|----------|
| <b>Prep Method: 5030B</b>    |                  |      | Date Prepared: | 12/20/2010 0004   |          |
| cis-1,2-Dichloroethene       | 110              | ug/L | 2.7            | 50                | 10       |
| Trichloroethene              | 110              | ug/L | 2.4            | 50                | 10       |
| Surrogate                    |                  |      |                | Acceptance Limits |          |
| 1,2-Dichloroethane-d4 (Surr) | 115              | %    |                | 80 - 129          |          |
| Toluene-d8 (Surr)            | 106              | %    |                | 80 - 120          |          |
| 4-Bromofluorobenzene (Surr)  | 102              | %    |                | 80 - 115          |          |
| Dibromofluoromethane         | 109              | %    |                | 80 - 124          |          |

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Job Number: 500-29935-1

**Client Sample ID:** IPC GW MW8  
**Lab Sample ID:** 500-29935-3

Date Sampled: 12/16/2010 1215  
 Date Received: 12/17/2010 1030  
 Client Matrix: Water

| Analyte                      | Result/Qualifier | Unit | MDL            | RL                | Dilution |
|------------------------------|------------------|------|----------------|-------------------|----------|
| <b>Method: 8260B</b>         |                  |      | Date Analyzed: | 12/21/2010 1608   |          |
| <b>Prep Method: 5030B</b>    |                  |      | Date Prepared: | 12/21/2010 1608   |          |
| Benzene                      | <5.0             | ug/L | 0.17           | 5.0               | 1.0      |
| Chloromethane                | <5.0             | ug/L | 0.24           | 5.0               | 1.0      |
| Vinyl chloride               | <2.0             | ug/L | 0.20           | 2.0               | 1.0      |
| Bromomethane                 | <5.0             | ug/L | 0.38           | 5.0               | 1.0      |
| Chloroethane                 | <5.0             | ug/L | 0.36           | 5.0               | 1.0      |
| 1,1-Dichloroethene           | 5.0              | ug/L | 0.19           | 5.0               | 1.0      |
| Carbon disulfide             | <5.0             | ug/L | 0.55           | 5.0               | 1.0      |
| Acetone                      | <20              | ug/L | 1.6            | 20                | 1.0      |
| Methylene Chloride           | <10              | ug/L | 0.67           | 10                | 1.0      |
| trans-1,2-Dichloroethene     | <5.0             | ug/L | 0.32           | 5.0               | 1.0      |
| 1,1-Dichloroethane           | 14               | ug/L | 0.25           | 5.0               | 1.0      |
| cis-1,2-Dichloroethene       | 29               | ug/L | 0.27           | 5.0               | 1.0      |
| Methyl Ethyl Ketone          | <20              | ug/L | 2.3            | 20                | 1.0      |
| Chloroform                   | <5.0             | ug/L | 0.15           | 5.0               | 1.0      |
| 1,1,1-Trichloroethane        | 5.3              | ug/L | 0.18           | 5.0               | 1.0      |
| Carbon tetrachloride         | <5.0             | ug/L | 0.25           | 5.0               | 1.0      |
| 1,2-Dichloroethane           | <5.0             | ug/L | 0.24           | 5.0               | 1.0      |
| Trichloroethene              | 40               | ug/L | 0.24           | 5.0               | 1.0      |
| 1,2-Dichloropropane          | <5.0             | ug/L | 0.21           | 5.0               | 1.0      |
| Bromodichloromethane         | <5.0             | ug/L | 0.19           | 5.0               | 1.0      |
| cis-1,3-Dichloropropene      | <5.0             | ug/L | 0.17           | 5.0               | 1.0      |
| methyl isobutyl ketone       | <20              | ug/L | 0.84           | 20                | 1.0      |
| Toluene                      | <5.0             | ug/L | 0.19           | 5.0               | 1.0      |
| trans-1,3-Dichloropropene    | <5.0             | ug/L | 0.24           | 5.0               | 1.0      |
| 1,1,2-Trichloroethane        | <5.0             | ug/L | 0.26           | 5.0               | 1.0      |
| Tetrachloroethene            | <5.0             | ug/L | 0.22           | 5.0               | 1.0      |
| 2-Hexanone                   | <20              | ug/L | 0.80           | 20                | 1.0      |
| Dibromochloromethane         | <5.0             | ug/L | 0.25           | 5.0               | 1.0      |
| Chlorobenzene                | <5.0             | ug/L | 0.17           | 5.0               | 1.0      |
| Ethylbenzene                 | <5.0             | ug/L | 0.18           | 5.0               | 1.0      |
| Styrene                      | <5.0             | ug/L | 0.15           | 5.0               | 1.0      |
| Bromoform                    | <5.0             | ug/L | 0.42           | 5.0               | 1.0      |
| 1,1,2,2-Tetrachloroethane    | <5.0             | ug/L | 0.29           | 5.0               | 1.0      |
| Xylenes, Total               | <5.0             | ug/L | 0.32           | 5.0               | 1.0      |
| Surrogate                    |                  |      |                | Acceptance Limits |          |
| 1,2-Dichloroethane-d4 (Surr) | 109              | %    |                | 80 - 129          |          |
| Toluene-d8 (Surr)            | 104              | %    |                | 80 - 120          |          |
| 4-Bromofluorobenzene (Surr)  | 99               | %    |                | 80 - 115          |          |

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Job Number: 500-29935-1

**Client Sample ID:** IPC GW MW8  
**Lab Sample ID:** 500-29935-3

Date Sampled: 12/16/2010 1215  
Date Received: 12/17/2010 1030  
Client Matrix: Water

| Analyte                           | Result/Qualifier | Unit | MDL | RL | Dilution                      |
|-----------------------------------|------------------|------|-----|----|-------------------------------|
| Surrogate<br>Dibromofluoromethane | 105              | %    |     |    | Acceptance Limits<br>80 - 124 |

Ms. Mary Pearson  
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Job Number: 500-29935-1

**Client Sample ID: IPC GW MW9**  
**Lab Sample ID: 500-29935-4**

Date Sampled: 12/16/2010 1237  
 Date Received: 12/17/2010 1030  
 Client Matrix: Water

| Analyte                      | Result/Qualifier | Unit   | MDL            | RL                | Dilution |
|------------------------------|------------------|--------|----------------|-------------------|----------|
| <b>Method: 8260B</b>         |                  |        | Date Analyzed: | 12/20/2010 0047   |          |
| <b>Prep Method: 5030B</b>    |                  |        | Date Prepared: | 12/20/2010 0047   |          |
| Benzene                      | <5.0             | ug/L   | 0.17           | 5.0               | 1.0      |
| Chloromethane                | <5.0             | ug/L   | 0.24           | 5.0               | 1.0      |
| Vinyl chloride               | <2.0             | ug/L   | 0.20           | 2.0               | 1.0      |
| Bromomethane                 | <5.0             | ug/L   | 0.38           | 5.0               | 1.0      |
| Chloroethane                 | <5.0             | ug/L   | 0.36           | 5.0               | 1.0      |
| 1,1-Dichloroethene           | <5.0             | ug/L   | 0.19           | 5.0               | 1.0      |
| Carbon disulfide             | <5.0             | ug/L   | 0.55           | 5.0               | 1.0      |
| Acetone                      | <20              | ug/L   | 1.6            | 20                | 1.0      |
| Methylene Chloride           | <10              | ug/L   | 0.67           | 10                | 1.0      |
| trans-1,2-Dichloroethene     | <5.0             | ug/L   | 0.32           | 5.0               | 1.0      |
| 1,1-Dichloroethane           | <5.0             | ug/L   | 0.25           | 5.0               | 1.0      |
| cis-1,2-Dichloroethene       | <5.0             | ug/L   | 0.27           | 5.0               | 1.0      |
| Methyl Ethyl Ketone          | <20              | ug/L   | 2.3            | 20                | 1.0      |
| Chloroform                   | <5.0             | ug/L   | 0.15           | 5.0               | 1.0      |
| 1,1,1-Trichloroethane        | <5.0             | * ug/L | 0.18           | 5.0               | 1.0      |
| Carbon tetrachloride         | <5.0             | ug/L   | 0.25           | 5.0               | 1.0      |
| 1,2-Dichloroethane           | <5.0             | ug/L   | 0.24           | 5.0               | 1.0      |
| Trichloroethene              | <5.0             | ug/L   | 0.24           | 5.0               | 1.0      |
| 1,2-Dichloropropane          | <5.0             | ug/L   | 0.21           | 5.0               | 1.0      |
| Bromodichloromethane         | <5.0             | ug/L   | 0.19           | 5.0               | 1.0      |
| cis-1,3-Dichloropropene      | <5.0             | ug/L   | 0.17           | 5.0               | 1.0      |
| methyl isobutyl ketone       | <20              | ug/L   | 0.84           | 20                | 1.0      |
| Toluene                      | <5.0             | ug/L   | 0.19           | 5.0               | 1.0      |
| trans-1,3-Dichloropropene    | <5.0             | ug/L   | 0.24           | 5.0               | 1.0      |
| 1,1,2-Trichloroethane        | <5.0             | ug/L   | 0.26           | 5.0               | 1.0      |
| Tetrachloroethene            | <5.0             | ug/L   | 0.22           | 5.0               | 1.0      |
| 2-Hexanone                   | <20              | ug/L   | 0.80           | 20                | 1.0      |
| Dibromochloromethane         | <5.0             | ug/L   | 0.25           | 5.0               | 1.0      |
| Chlorobenzene                | <5.0             | ug/L   | 0.17           | 5.0               | 1.0      |
| Ethylbenzene                 | <5.0             | ug/L   | 0.18           | 5.0               | 1.0      |
| Styrene                      | <5.0             | ug/L   | 0.15           | 5.0               | 1.0      |
| Bromoform                    | <5.0             | ug/L   | 0.42           | 5.0               | 1.0      |
| 1,1,2,2-Tetrachloroethane    | <5.0             | ug/L   | 0.29           | 5.0               | 1.0      |
| Xylenes, Total               | <5.0             | ug/L   | 0.32           | 5.0               | 1.0      |
| Surrogate                    |                  |        |                | Acceptance Limits |          |
| 1,2-Dichloroethane-d4 (Surr) | 116              | %      |                | 80 - 129          |          |
| Toluene-d8 (Surr)            | 108              | %      |                | 80 - 120          |          |
| 4-Bromofluorobenzene (Surr)  | 99               | %      |                | 80 - 115          |          |

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975 Burton Street  
Unit 10  
Beloit, WI 53511

Job Number: 500-29935-1

**Client Sample ID:** IPC GW MW9  
**Lab Sample ID:** 500-29935-4

Date Sampled: 12/16/2010 1237  
Date Received: 12/17/2010 1030  
Client Matrix: Water

| Analyte                           | Result/Qualifier | Unit | MDL | RL | Dilution                      |
|-----------------------------------|------------------|------|-----|----|-------------------------------|
| Surrogate<br>Dibromofluoromethane | 106              | %    |     |    | Acceptance Limits<br>80 - 124 |

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Job Number: 500-29935-1

**Client Sample ID: IPC GW MW7**  
**Lab Sample ID: 500-29935-5**

Date Sampled: 12/16/2010 1255  
 Date Received: 12/17/2010 1030  
 Client Matrix: Water

| Analyte                      | Result/Qualifier | Unit | MDL            | RL              | Dilution          |
|------------------------------|------------------|------|----------------|-----------------|-------------------|
| <b>Method: 8260B</b>         |                  |      | Date Analyzed: | 12/21/2010 1630 |                   |
| <b>Prep Method: 5030B</b>    |                  |      | Date Prepared: | 12/21/2010 1630 |                   |
| Benzene                      | <5.0             | ug/L | 0.17           | 5.0             | 1.0               |
| Chloromethane                | <5.0             | ug/L | 0.24           | 5.0             | 1.0               |
| Vinyl chloride               | 15               | ug/L | 0.20           | 2.0             | 1.0               |
| Bromomethane                 | <5.0             | ug/L | 0.38           | 5.0             | 1.0               |
| Chloroethane                 | <5.0             | ug/L | 0.36           | 5.0             | 1.0               |
| 1,1-Dichloroethene           | 9.8              | ug/L | 0.19           | 5.0             | 1.0               |
| Carbon disulfide             | <5.0             | ug/L | 0.55           | 5.0             | 1.0               |
| Acetone                      | <20              | ug/L | 1.6            | 20              | 1.0               |
| Methylene Chloride           | <10              | ug/L | 0.67           | 10              | 1.0               |
| trans-1,2-Dichloroethene     | <5.0             | ug/L | 0.32           | 5.0             | 1.0               |
| 1,1-Dichloroethane           | 15               | ug/L | 0.25           | 5.0             | 1.0               |
| Methyl Ethyl Ketone          | <20              | ug/L | 2.3            | 20              | 1.0               |
| Chloroform                   | <5.0             | ug/L | 0.15           | 5.0             | 1.0               |
| 1,1,1-Trichloroethane        | <5.0             | ug/L | 0.18           | 5.0             | 1.0               |
| Carbon tetrachloride         | <5.0             | ug/L | 0.25           | 5.0             | 1.0               |
| 1,2-Dichloroethane           | <5.0             | ug/L | 0.24           | 5.0             | 1.0               |
| Trichloroethene              | 13               | ug/L | 0.24           | 5.0             | 1.0               |
| 1,2-Dichloropropane          | <5.0             | ug/L | 0.21           | 5.0             | 1.0               |
| Bromodichloromethane         | <5.0             | ug/L | 0.19           | 5.0             | 1.0               |
| cis-1,3-Dichloropropene      | <5.0             | ug/L | 0.17           | 5.0             | 1.0               |
| methyl isobutyl ketone       | <20              | ug/L | 0.84           | 20              | 1.0               |
| Toluene                      | <5.0             | ug/L | 0.19           | 5.0             | 1.0               |
| trans-1,3-Dichloropropene    | <5.0             | ug/L | 0.24           | 5.0             | 1.0               |
| 1,1,2-Trichloroethane        | <5.0             | ug/L | 0.26           | 5.0             | 1.0               |
| Tetrachloroethene            | <5.0             | ug/L | 0.22           | 5.0             | 1.0               |
| 2-Hexanone                   | <20              | ug/L | 0.80           | 20              | 1.0               |
| Dibromochloromethane         | <5.0             | ug/L | 0.25           | 5.0             | 1.0               |
| Chlorobenzene                | <5.0             | ug/L | 0.17           | 5.0             | 1.0               |
| Ethylbenzene                 | <5.0             | ug/L | 0.18           | 5.0             | 1.0               |
| Styrene                      | <5.0             | ug/L | 0.15           | 5.0             | 1.0               |
| Bromoform                    | <5.0             | ug/L | 0.42           | 5.0             | 1.0               |
| 1,1,2,2-Tetrachloroethane    | <5.0             | ug/L | 0.29           | 5.0             | 1.0               |
| Xylenes, Total               | <5.0             | ug/L | 0.32           | 5.0             | 1.0               |
| Surrogate                    |                  |      |                |                 | Acceptance Limits |
| 1,2-Dichloroethane-d4 (Surr) | 114              | %    |                | 80 - 129        |                   |
| Toluene-d8 (Surr)            | 107              | %    |                | 80 - 120        |                   |
| 4-Bromofluorobenzene (Surr)  | 100              | %    |                | 80 - 115        |                   |
| Dibromofluoromethane         | 104              | %    |                | 80 - 124        |                   |

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Job Number: 500-29935-1

**Client Sample ID: IPC GW MW7**  
**Lab Sample ID: 500-29935-5**

Date Sampled: 12/16/2010 1255  
Date Received: 12/17/2010 1030  
Client Matrix: Water

| Analyte                           | Result/Qualifier | Unit | MDL            | RL                | Dilution |
|-----------------------------------|------------------|------|----------------|-------------------|----------|
| <b>Method: 8260B Run Type: DL</b> |                  |      | Date Analyzed: | 12/20/2010 0131   |          |
| <b>Prep Method: 5030B</b>         |                  |      | Date Prepared: | 12/20/2010 0131   |          |
| cis-1,2-Dichloroethene            | 120              | ug/L | 2.7            | 50                | 10       |
| Surrogate                         |                  |      |                | Acceptance Limits |          |
| 1,2-Dichloroethane-d4 (Surr)      | 112              | %    |                | 80 - 129          |          |
| Toluene-d8 (Surr)                 | 103              | %    |                | 80 - 120          |          |
| 4-Bromofluorobenzene (Surr)       | 99               | %    |                | 80 - 115          |          |
| Dibromofluoromethane              | 106              | %    |                | 80 - 124          |          |

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Job Number: 500-29935-1

**Client Sample ID: IPC GW MW4**  
**Lab Sample ID: 500-29935-6**

Date Sampled: 12/16/2010 1329  
 Date Received: 12/17/2010 1030  
 Client Matrix: Water

| Analyte                      | Result/Qualifier | Unit | MDL            | RL              | Dilution          |
|------------------------------|------------------|------|----------------|-----------------|-------------------|
| <b>Method: 8260B</b>         |                  |      | Date Analyzed: | 12/21/2010 1651 |                   |
| <b>Prep Method: 5030B</b>    |                  |      | Date Prepared: | 12/21/2010 1651 |                   |
| Benzene                      | <5.0             | ug/L | 0.17           | 5.0             | 1.0               |
| Chloromethane                | <5.0             | ug/L | 0.24           | 5.0             | 1.0               |
| Vinyl chloride               | 59               | ug/L | 0.20           | 2.0             | 1.0               |
| Bromomethane                 | <5.0             | ug/L | 0.38           | 5.0             | 1.0               |
| Chloroethane                 | <5.0             | ug/L | 0.36           | 5.0             | 1.0               |
| 1,1-Dichloroethene           | 8.1              | ug/L | 0.19           | 5.0             | 1.0               |
| Carbon disulfide             | <5.0             | ug/L | 0.55           | 5.0             | 1.0               |
| Acetone                      | <20              | ug/L | 1.6            | 20              | 1.0               |
| Methylene Chloride           | <10              | ug/L | 0.67           | 10              | 1.0               |
| trans-1,2-Dichloroethene     | <5.0             | ug/L | 0.32           | 5.0             | 1.0               |
| 1,1-Dichloroethane           | 14               | ug/L | 0.25           | 5.0             | 1.0               |
| Methyl Ethyl Ketone          | <20              | ug/L | 2.3            | 20              | 1.0               |
| Chloroform                   | <5.0             | ug/L | 0.15           | 5.0             | 1.0               |
| 1,1,1-Trichloroethane        | 13               | ug/L | 0.18           | 5.0             | 1.0               |
| Carbon tetrachloride         | <5.0             | ug/L | 0.25           | 5.0             | 1.0               |
| 1,2-Dichloroethane           | <5.0             | ug/L | 0.24           | 5.0             | 1.0               |
| Trichloroethene              | <5.0             | ug/L | 0.24           | 5.0             | 1.0               |
| 1,2-Dichloropropane          | <5.0             | ug/L | 0.21           | 5.0             | 1.0               |
| Bromodichloromethane         | <5.0             | ug/L | 0.19           | 5.0             | 1.0               |
| cis-1,3-Dichloropropene      | <5.0             | ug/L | 0.17           | 5.0             | 1.0               |
| methyl isobutyl ketone       | <20              | ug/L | 0.84           | 20              | 1.0               |
| Toluene                      | <5.0             | ug/L | 0.19           | 5.0             | 1.0               |
| trans-1,3-Dichloropropene    | <5.0             | ug/L | 0.24           | 5.0             | 1.0               |
| 1,1,2-Trichloroethane        | <5.0             | ug/L | 0.26           | 5.0             | 1.0               |
| Tetrachloroethene            | <5.0             | ug/L | 0.22           | 5.0             | 1.0               |
| 2-Hexanone                   | <20              | ug/L | 0.80           | 20              | 1.0               |
| Dibromochloromethane         | <5.0             | ug/L | 0.25           | 5.0             | 1.0               |
| Chlorobenzene                | <5.0             | ug/L | 0.17           | 5.0             | 1.0               |
| Ethylbenzene                 | <5.0             | ug/L | 0.18           | 5.0             | 1.0               |
| Styrene                      | <5.0             | ug/L | 0.15           | 5.0             | 1.0               |
| Bromoform                    | <5.0             | ug/L | 0.42           | 5.0             | 1.0               |
| 1,1,2,2-Tetrachloroethane    | <5.0             | ug/L | 0.29           | 5.0             | 1.0               |
| Xylenes, Total               | <5.0             | ug/L | 0.32           | 5.0             | 1.0               |
| Surrogate                    |                  |      |                |                 | Acceptance Limits |
| 1,2-Dichloroethane-d4 (Surr) | 111              | %    |                | 80 - 129        |                   |
| Toluene-d8 (Surr)            | 103              | %    |                | 80 - 120        |                   |
| 4-Bromofluorobenzene (Surr)  | 98               | %    |                | 80 - 115        |                   |
| Dibromofluoromethane         | 103              | %    |                | 80 - 124        |                   |

Ms. Mary Pearson  
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Beloit, WI 53511

Job Number: 500-29935-1

**Client Sample ID: IPC GW MW4**  
**Lab Sample ID: 500-29935-6**

Date Sampled: 12/16/2010 1329  
Date Received: 12/17/2010 1030  
Client Matrix: Water

| Analyte                           | Result/Qualifier | Unit | MDL            | RL                | Dilution |
|-----------------------------------|------------------|------|----------------|-------------------|----------|
| <b>Method: 8260B Run Type: DL</b> |                  |      | Date Analyzed: | 12/21/2010 1713   |          |
| <b>Prep Method: 5030B</b>         |                  |      | Date Prepared: | 12/21/2010 1713   |          |
| cis-1,2-Dichloroethene            | 110              | ug/L | 0.54           | 10                | 2.0      |
| Surrogate                         |                  |      |                | Acceptance Limits |          |
| 1,2-Dichloroethane-d4 (Surr)      | 112              | %    |                | 80 - 129          |          |
| Toluene-d8 (Surr)                 | 104              | %    |                | 80 - 120          |          |
| 4-Bromofluorobenzene (Surr)       | 101              | %    |                | 80 - 115          |          |
| Dibromofluoromethane              | 107              | %    |                | 80 - 124          |          |

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Job Number: 500-29935-1

**Client Sample ID: IPC GW MW3**  
**Lab Sample ID: 500-29935-7**

Date Sampled: 12/16/2010 1407  
 Date Received: 12/17/2010 1030  
 Client Matrix: Water

| Analyte                      | Result/Qualifier | Unit | MDL            | RL                | Dilution |
|------------------------------|------------------|------|----------------|-------------------|----------|
| <b>Method: 8260B</b>         |                  |      | Date Analyzed: | 12/21/2010 1734   |          |
| <b>Prep Method: 5030B</b>    |                  |      | Date Prepared: | 12/21/2010 1734   |          |
| Benzene                      | <5.0             | ug/L | 0.17           | 5.0               | 1.0      |
| Chloromethane                | <5.0             | ug/L | 0.24           | 5.0               | 1.0      |
| Vinyl chloride               | <2.0             | ug/L | 0.20           | 2.0               | 1.0      |
| Bromomethane                 | <5.0             | ug/L | 0.38           | 5.0               | 1.0      |
| Chloroethane                 | <5.0             | ug/L | 0.36           | 5.0               | 1.0      |
| 1,1-Dichloroethene           | 20               | ug/L | 0.19           | 5.0               | 1.0      |
| Carbon disulfide             | <5.0             | ug/L | 0.55           | 5.0               | 1.0      |
| Acetone                      | <20              | ug/L | 1.6            | 20                | 1.0      |
| Methylene Chloride           | <10              | ug/L | 0.67           | 10                | 1.0      |
| trans-1,2-Dichloroethene     | <5.0             | ug/L | 0.32           | 5.0               | 1.0      |
| 1,1-Dichloroethane           | <5.0             | ug/L | 0.25           | 5.0               | 1.0      |
| cis-1,2-Dichloroethene       | 46               | ug/L | 0.27           | 5.0               | 1.0      |
| Methyl Ethyl Ketone          | <20              | ug/L | 2.3            | 20                | 1.0      |
| Chloroform                   | <5.0             | ug/L | 0.15           | 5.0               | 1.0      |
| 1,1,1-Trichloroethane        | 22               | ug/L | 0.18           | 5.0               | 1.0      |
| Carbon tetrachloride         | <5.0             | ug/L | 0.25           | 5.0               | 1.0      |
| 1,2-Dichloroethane           | <5.0             | ug/L | 0.24           | 5.0               | 1.0      |
| 1,2-Dichloropropane          | <5.0             | ug/L | 0.21           | 5.0               | 1.0      |
| Bromodichloromethane         | <5.0             | ug/L | 0.19           | 5.0               | 1.0      |
| cis-1,3-Dichloropropene      | <5.0             | ug/L | 0.17           | 5.0               | 1.0      |
| methyl isobutyl ketone       | <20              | ug/L | 0.84           | 20                | 1.0      |
| Toluene                      | <5.0             | ug/L | 0.19           | 5.0               | 1.0      |
| trans-1,3-Dichloropropene    | <5.0             | ug/L | 0.24           | 5.0               | 1.0      |
| 1,1,2-Trichloroethane        | <5.0             | ug/L | 0.26           | 5.0               | 1.0      |
| Tetrachloroethene            | 37               | ug/L | 0.22           | 5.0               | 1.0      |
| 2-Hexanone                   | <20              | ug/L | 0.80           | 20                | 1.0      |
| Dibromochloromethane         | <5.0             | ug/L | 0.25           | 5.0               | 1.0      |
| Chlorobenzene                | <5.0             | ug/L | 0.17           | 5.0               | 1.0      |
| Ethylbenzene                 | <5.0             | ug/L | 0.18           | 5.0               | 1.0      |
| Styrene                      | <5.0             | ug/L | 0.15           | 5.0               | 1.0      |
| Bromoform                    | <5.0             | ug/L | 0.42           | 5.0               | 1.0      |
| 1,1,2,2-Tetrachloroethane    | <5.0             | ug/L | 0.29           | 5.0               | 1.0      |
| Xylenes, Total               | <5.0             | ug/L | 0.32           | 5.0               | 1.0      |
| Surrogate                    |                  |      |                | Acceptance Limits |          |
| 1,2-Dichloroethane-d4 (Surr) | 116              | %    |                | 80 - 129          |          |
| Toluene-d8 (Surr)            | 106              | %    |                | 80 - 120          |          |
| 4-Bromofluorobenzene (Surr)  | 100              | %    |                | 80 - 115          |          |
| Dibromofluoromethane         | 108              | %    |                | 80 - 124          |          |

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975 Burton Street  
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Beloit, WI 53511

Job Number: 500-29935-1

**Client Sample ID:** IPC GW MW3  
**Lab Sample ID:** 500-29935-7

Date Sampled: 12/16/2010 1407  
Date Received: 12/17/2010 1030  
Client Matrix: Water

| Analyte                                  | Result/Qualifier | Unit | MDL            | RL                | Dilution |
|--|------------------|------|----------------|-------------------|----------|
| <b>Method:</b> 8260B <b>Run Type:</b> DL |                  |      | Date Analyzed: | 12/20/2010 0235   |          |
| <b>Prep Method:</b> 5030B                |                  |      | Date Prepared: | 12/20/2010 0235   |          |
| Trichloroethene                          | 180              | ug/L | 2.4            | 50                | 10       |
| Surrogate                                |                  |      |                | Acceptance Limits |          |
| 1,2-Dichloroethane-d4 (Surr)             | 114              | %    |                | 80 - 129          |          |
| Toluene-d8 (Surr)                        | 105              | %    |                | 80 - 120          |          |
| 4-Bromofluorobenzene (Surr)              | 98               | %    |                | 80 - 115          |          |
| Dibromofluoromethane                     | 111              | %    |                | 80 - 124          |          |

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Job Number: 500-29935-1

**Client Sample ID: IPC GW MW2**  
**Lab Sample ID: 500-29935-8**

Date Sampled: 12/16/2010 1432  
 Date Received: 12/17/2010 1030  
 Client Matrix: Water

| Analyte                      | Result/Qualifier | Unit | MDL            | RL              | Dilution          |
|------------------------------|------------------|------|----------------|-----------------|-------------------|
| <b>Method: 8260B</b>         |                  |      | Date Analyzed: | 12/21/2010 1755 |                   |
| <b>Prep Method: 5030B</b>    |                  |      | Date Prepared: | 12/21/2010 1755 |                   |
| Benzene                      | <5.0             | ug/L | 0.17           | 5.0             | 1.0               |
| Chloromethane                | <5.0             | ug/L | 0.24           | 5.0             | 1.0               |
| Vinyl chloride               | <2.0             | ug/L | 0.20           | 2.0             | 1.0               |
| Bromomethane                 | <5.0             | ug/L | 0.38           | 5.0             | 1.0               |
| Chloroethane                 | <5.0             | ug/L | 0.36           | 5.0             | 1.0               |
| 1,1-Dichloroethene           | 22               | ug/L | 0.19           | 5.0             | 1.0               |
| Carbon disulfide             | <5.0             | ug/L | 0.55           | 5.0             | 1.0               |
| Acetone                      | <20              | ug/L | 1.6            | 20              | 1.0               |
| Methylene Chloride           | <10              | ug/L | 0.67           | 10              | 1.0               |
| trans-1,2-Dichloroethene     | <5.0             | ug/L | 0.32           | 5.0             | 1.0               |
| 1,1-Dichloroethane           | <5.0             | ug/L | 0.25           | 5.0             | 1.0               |
| cis-1,2-Dichloroethene       | 56               | ug/L | 0.27           | 5.0             | 1.0               |
| Methyl Ethyl Ketone          | <20              | ug/L | 2.3            | 20              | 1.0               |
| Chloroform                   | <5.0             | ug/L | 0.15           | 5.0             | 1.0               |
| 1,1,1-Trichloroethane        | 21               | ug/L | 0.18           | 5.0             | 1.0               |
| Carbon tetrachloride         | <5.0             | ug/L | 0.25           | 5.0             | 1.0               |
| 1,2-Dichloroethane           | <5.0             | ug/L | 0.24           | 5.0             | 1.0               |
| 1,2-Dichloropropane          | <5.0             | ug/L | 0.21           | 5.0             | 1.0               |
| Bromodichloromethane         | <5.0             | ug/L | 0.19           | 5.0             | 1.0               |
| cis-1,3-Dichloropropene      | <5.0             | ug/L | 0.17           | 5.0             | 1.0               |
| methyl isobutyl ketone       | <20              | ug/L | 0.84           | 20              | 1.0               |
| Toluene                      | <5.0             | ug/L | 0.19           | 5.0             | 1.0               |
| trans-1,3-Dichloropropene    | <5.0             | ug/L | 0.24           | 5.0             | 1.0               |
| 1,1,2-Trichloroethane        | <5.0             | ug/L | 0.26           | 5.0             | 1.0               |
| Tetrachloroethene            | 38               | ug/L | 0.22           | 5.0             | 1.0               |
| 2-Hexanone                   | <20              | ug/L | 0.80           | 20              | 1.0               |
| Dibromochloromethane         | <5.0             | ug/L | 0.25           | 5.0             | 1.0               |
| Chlorobenzene                | <5.0             | ug/L | 0.17           | 5.0             | 1.0               |
| Ethylbenzene                 | <5.0             | ug/L | 0.18           | 5.0             | 1.0               |
| Styrene                      | <5.0             | ug/L | 0.15           | 5.0             | 1.0               |
| Bromoform                    | <5.0             | ug/L | 0.42           | 5.0             | 1.0               |
| 1,1,2,2-Tetrachloroethane    | <5.0             | ug/L | 0.29           | 5.0             | 1.0               |
| Xylenes, Total               | <5.0             | ug/L | 0.32           | 5.0             | 1.0               |
| Surrogate                    |                  |      |                |                 | Acceptance Limits |
| 1,2-Dichloroethane-d4 (Surr) | 115              | %    |                | 80 - 129        |                   |
| Toluene-d8 (Surr)            | 108              | %    |                | 80 - 120        |                   |
| 4-Bromofluorobenzene (Surr)  | 101              | %    |                | 80 - 115        |                   |
| Dibromofluoromethane         | 106              | %    |                | 80 - 124        |                   |

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975 Burton Street  
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Beloit, WI 53511

Job Number: 500-29935-1

**Client Sample ID: IPC GW MW2**  
**Lab Sample ID: 500-29935-8**

Date Sampled: 12/16/2010 1432  
Date Received: 12/17/2010 1030  
Client Matrix: Water

| Analyte                           | Result/Qualifier | Unit | MDL            | RL                | Dilution |
|-----------------------------------|------------------|------|----------------|-------------------|----------|
| <b>Method: 8260B Run Type: DL</b> |                  |      | Date Analyzed: | 12/20/2010 0319   |          |
| <b>Prep Method: 5030B</b>         |                  |      | Date Prepared: | 12/20/2010 0319   |          |
| Trichloroethene                   | 200              | ug/L | 2.4            | 50                | 10       |
| Surrogate                         |                  |      |                | Acceptance Limits |          |
| 1,2-Dichloroethane-d4 (Surr)      | 117              | %    |                | 80 - 129          |          |
| Toluene-d8 (Surr)                 | 104              | %    |                | 80 - 120          |          |
| 4-Bromofluorobenzene (Surr)       | 99               | %    |                | 80 - 115          |          |
| Dibromofluoromethane              | 109              | %    |                | 80 - 124          |          |

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Job Number: 500-29935-1

**Client Sample ID: IPC GW MW1**  
**Lab Sample ID: 500-29935-9**

Date Sampled: 12/16/2010 1504  
 Date Received: 12/17/2010 1030  
 Client Matrix: Water

| Analyte                      | Result/Qualifier | Unit | MDL            | RL              | Dilution          |
|------------------------------|------------------|------|----------------|-----------------|-------------------|
| <b>Method: 8260B</b>         |                  |      | Date Analyzed: | 12/21/2010 1817 |                   |
| <b>Prep Method: 5030B</b>    |                  |      | Date Prepared: | 12/21/2010 1817 |                   |
| Benzene                      | <5.0             | ug/L | 0.17           | 5.0             | 1.0               |
| Chloromethane                | <5.0             | ug/L | 0.24           | 5.0             | 1.0               |
| Vinyl chloride               | 16               | ug/L | 0.20           | 2.0             | 1.0               |
| Bromomethane                 | <5.0             | ug/L | 0.38           | 5.0             | 1.0               |
| Chloroethane                 | <5.0             | ug/L | 0.36           | 5.0             | 1.0               |
| 1,1-Dichloroethene           | 9.3              | ug/L | 0.19           | 5.0             | 1.0               |
| Carbon disulfide             | <5.0             | ug/L | 0.55           | 5.0             | 1.0               |
| Acetone                      | <20              | ug/L | 1.6            | 20              | 1.0               |
| Methylene Chloride           | <10              | ug/L | 0.67           | 10              | 1.0               |
| trans-1,2-Dichloroethene     | <5.0             | ug/L | 0.32           | 5.0             | 1.0               |
| 1,1-Dichloroethane           | 14               | ug/L | 0.25           | 5.0             | 1.0               |
| Methyl Ethyl Ketone          | <20              | ug/L | 2.3            | 20              | 1.0               |
| Chloroform                   | <5.0             | ug/L | 0.15           | 5.0             | 1.0               |
| 1,1,1-Trichloroethane        | <5.0             | ug/L | 0.18           | 5.0             | 1.0               |
| Carbon tetrachloride         | <5.0             | ug/L | 0.25           | 5.0             | 1.0               |
| 1,2-Dichloroethane           | <5.0             | ug/L | 0.24           | 5.0             | 1.0               |
| Trichloroethene              | 13               | ug/L | 0.24           | 5.0             | 1.0               |
| 1,2-Dichloropropane          | <5.0             | ug/L | 0.21           | 5.0             | 1.0               |
| Bromodichloromethane         | <5.0             | ug/L | 0.19           | 5.0             | 1.0               |
| cis-1,3-Dichloropropene      | <5.0             | ug/L | 0.17           | 5.0             | 1.0               |
| methyl isobutyl ketone       | <20              | ug/L | 0.84           | 20              | 1.0               |
| Toluene                      | <5.0             | ug/L | 0.19           | 5.0             | 1.0               |
| trans-1,3-Dichloropropene    | <5.0             | ug/L | 0.24           | 5.0             | 1.0               |
| 1,1,2-Trichloroethane        | <5.0             | ug/L | 0.26           | 5.0             | 1.0               |
| Tetrachloroethene            | <5.0             | ug/L | 0.22           | 5.0             | 1.0               |
| 2-Hexanone                   | <20              | ug/L | 0.80           | 20              | 1.0               |
| Dibromochloromethane         | <5.0             | ug/L | 0.25           | 5.0             | 1.0               |
| Chlorobenzene                | <5.0             | ug/L | 0.17           | 5.0             | 1.0               |
| Ethylbenzene                 | <5.0             | ug/L | 0.18           | 5.0             | 1.0               |
| Styrene                      | <5.0             | ug/L | 0.15           | 5.0             | 1.0               |
| Bromoform                    | <5.0             | ug/L | 0.42           | 5.0             | 1.0               |
| 1,1,2,2-Tetrachloroethane    | <5.0             | ug/L | 0.29           | 5.0             | 1.0               |
| Xylenes, Total               | <5.0             | ug/L | 0.32           | 5.0             | 1.0               |
| Surrogate                    |                  |      |                |                 | Acceptance Limits |
| 1,2-Dichloroethane-d4 (Surr) | 111              | %    |                | 80 - 129        |                   |
| Toluene-d8 (Surr)            | 105              | %    |                | 80 - 120        |                   |
| 4-Bromofluorobenzene (Surr)  | 99               | %    |                | 80 - 115        |                   |
| Dibromofluoromethane         | 104              | %    |                | 80 - 124        |                   |

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975 Burton Street  
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Beloit, WI 53511

Job Number: 500-29935-1

**Client Sample ID: IPC GW MW1**  
**Lab Sample ID: 500-29935-9**

Date Sampled: 12/16/2010 1504  
Date Received: 12/17/2010 1030  
Client Matrix: Water

| Analyte                           | Result/Qualifier | Unit | MDL            | RL                | Dilution |
|-----------------------------------|------------------|------|----------------|-------------------|----------|
| <b>Method: 8260B Run Type: DL</b> |                  |      | Date Analyzed: | 12/21/2010 1839   |          |
| <b>Prep Method: 5030B</b>         |                  |      | Date Prepared: | 12/21/2010 1839   |          |
| cis-1,2-Dichloroethene            | 130              | ug/L | 0.54           | 10                | 2.0      |
| Surrogate                         |                  |      |                | Acceptance Limits |          |
| 1,2-Dichloroethane-d4 (Surr)      | 116              | %    |                | 80 - 129          |          |
| Toluene-d8 (Surr)                 | 106              | %    |                | 80 - 120          |          |
| 4-Bromofluorobenzene (Surr)       | 100              | %    |                | 80 - 115          |          |
| Dibromofluoromethane              | 106              | %    |                | 80 - 124          |          |

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 Unit 10  
 Beloit, WI 53511

Job Number: 500-29935-1

**Client Sample ID:** IPC GW FB  
**Lab Sample ID:** 500-29935-10

Date Sampled: 12/16/2010 1510  
 Date Received: 12/17/2010 1030  
 Client Matrix: Water

| Analyte                      | Result/Qualifier | Unit   | MDL            | RL                | Dilution |
|------------------------------|------------------|--------|----------------|-------------------|----------|
| <b>Method: 8260B</b>         |                  |        | Date Analyzed: | 12/20/2010 0402   |          |
| <b>Prep Method: 5030B</b>    |                  |        | Date Prepared: | 12/20/2010 0402   |          |
| Benzene                      | <5.0             | ug/L   | 0.17           | 5.0               | 1.0      |
| Chloromethane                | <5.0             | ug/L   | 0.24           | 5.0               | 1.0      |
| Vinyl chloride               | <2.0             | ug/L   | 0.20           | 2.0               | 1.0      |
| Bromomethane                 | <5.0             | ug/L   | 0.38           | 5.0               | 1.0      |
| Chloroethane                 | <5.0             | ug/L   | 0.36           | 5.0               | 1.0      |
| 1,1-Dichloroethene           | <5.0             | ug/L   | 0.19           | 5.0               | 1.0      |
| Carbon disulfide             | <5.0             | ug/L   | 0.55           | 5.0               | 1.0      |
| Acetone                      | <20              | ug/L   | 1.6            | 20                | 1.0      |
| Methylene Chloride           | <10              | ug/L   | 0.67           | 10                | 1.0      |
| trans-1,2-Dichloroethene     | <5.0             | ug/L   | 0.32           | 5.0               | 1.0      |
| 1,1-Dichloroethane           | <5.0             | ug/L   | 0.25           | 5.0               | 1.0      |
| cis-1,2-Dichloroethene       | <5.0             | ug/L   | 0.27           | 5.0               | 1.0      |
| Methyl Ethyl Ketone          | <20              | ug/L   | 2.3            | 20                | 1.0      |
| Chloroform                   | <5.0             | ug/L   | 0.15           | 5.0               | 1.0      |
| 1,1,1-Trichloroethane        | <5.0             | * ug/L | 0.18           | 5.0               | 1.0      |
| Carbon tetrachloride         | <5.0             | ug/L   | 0.25           | 5.0               | 1.0      |
| 1,2-Dichloroethane           | <5.0             | ug/L   | 0.24           | 5.0               | 1.0      |
| Trichloroethene              | <5.0             | ug/L   | 0.24           | 5.0               | 1.0      |
| 1,2-Dichloropropane          | <5.0             | ug/L   | 0.21           | 5.0               | 1.0      |
| Bromodichloromethane         | <5.0             | ug/L   | 0.19           | 5.0               | 1.0      |
| cis-1,3-Dichloropropene      | <5.0             | ug/L   | 0.17           | 5.0               | 1.0      |
| methyl isobutyl ketone       | <20              | ug/L   | 0.84           | 20                | 1.0      |
| Toluene                      | <5.0             | ug/L   | 0.19           | 5.0               | 1.0      |
| trans-1,3-Dichloropropene    | <5.0             | ug/L   | 0.24           | 5.0               | 1.0      |
| 1,1,2-Trichloroethane        | <5.0             | ug/L   | 0.26           | 5.0               | 1.0      |
| Tetrachloroethene            | <5.0             | ug/L   | 0.22           | 5.0               | 1.0      |
| 2-Hexanone                   | <20              | ug/L   | 0.80           | 20                | 1.0      |
| Dibromochloromethane         | <5.0             | ug/L   | 0.25           | 5.0               | 1.0      |
| Chlorobenzene                | <5.0             | ug/L   | 0.17           | 5.0               | 1.0      |
| Ethylbenzene                 | <5.0             | ug/L   | 0.18           | 5.0               | 1.0      |
| Styrene                      | <5.0             | ug/L   | 0.15           | 5.0               | 1.0      |
| Bromoform                    | <5.0             | ug/L   | 0.42           | 5.0               | 1.0      |
| 1,1,2,2-Tetrachloroethane    | <5.0             | ug/L   | 0.29           | 5.0               | 1.0      |
| Xylenes, Total               | <5.0             | ug/L   | 0.32           | 5.0               | 1.0      |
| Surrogate                    |                  |        |                | Acceptance Limits |          |
| 1,2-Dichloroethane-d4 (Surr) | 114              | %      |                | 80 - 129          |          |
| Toluene-d8 (Surr)            | 105              | %      |                | 80 - 120          |          |
| 4-Bromofluorobenzene (Surr)  | 102              | %      |                | 80 - 115          |          |

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Environmental Information Logistics (EIL)  
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Job Number: 500-29935-1

**Client Sample ID:** IPC GW FB  
**Lab Sample ID:** 500-29935-10

Date Sampled: 12/16/2010 1510  
Date Received: 12/17/2010 1030  
Client Matrix: Water

| Analyte                           | Result/Qualifier | Unit | MDL | RL | Dilution                      |
|-----------------------------------|------------------|------|-----|----|-------------------------------|
| Surrogate<br>Dibromofluoromethane | 110              | %    |     |    | Acceptance Limits<br>80 - 124 |

Ms. Mary Pearson  
 Environmental Information Logistics (EIL)  
 975 Burton Street  
 Unit 10  
 Beloit, WI 53511

Job Number: 500-29935-1

**Client Sample ID: TRIP BLANK**  
**Lab Sample ID: 500-29935-11**

Date Sampled: 12/16/2010 0000  
 Date Received: 12/17/2010 1030  
 Client Matrix: Water

| Analyte                      | Result/Qualifier | Unit   | MDL            | RL                | Dilution |
|------------------------------|------------------|--------|----------------|-------------------|----------|
| <b>Method: 8260B</b>         |                  |        | Date Analyzed: | 12/20/2010 0424   |          |
| <b>Prep Method: 5030B</b>    |                  |        | Date Prepared: | 12/20/2010 0424   |          |
| Benzene                      | <5.0             | ug/L   | 0.17           | 5.0               | 1.0      |
| Chloromethane                | <5.0             | ug/L   | 0.24           | 5.0               | 1.0      |
| Vinyl chloride               | <2.0             | ug/L   | 0.20           | 2.0               | 1.0      |
| Bromomethane                 | <5.0             | ug/L   | 0.38           | 5.0               | 1.0      |
| Chloroethane                 | <5.0             | ug/L   | 0.36           | 5.0               | 1.0      |
| 1,1-Dichloroethene           | <5.0             | ug/L   | 0.19           | 5.0               | 1.0      |
| Carbon disulfide             | <5.0             | ug/L   | 0.55           | 5.0               | 1.0      |
| Acetone                      | <20              | ug/L   | 1.6            | 20                | 1.0      |
| Methylene Chloride           | <10              | ug/L   | 0.67           | 10                | 1.0      |
| trans-1,2-Dichloroethene     | <5.0             | ug/L   | 0.32           | 5.0               | 1.0      |
| 1,1-Dichloroethane           | <5.0             | ug/L   | 0.25           | 5.0               | 1.0      |
| cis-1,2-Dichloroethene       | <5.0             | ug/L   | 0.27           | 5.0               | 1.0      |
| Methyl Ethyl Ketone          | <20              | ug/L   | 2.3            | 20                | 1.0      |
| Chloroform                   | <5.0             | ug/L   | 0.15           | 5.0               | 1.0      |
| 1,1,1-Trichloroethane        | <5.0             | * ug/L | 0.18           | 5.0               | 1.0      |
| Carbon tetrachloride         | <5.0             | ug/L   | 0.25           | 5.0               | 1.0      |
| 1,2-Dichloroethane           | <5.0             | ug/L   | 0.24           | 5.0               | 1.0      |
| Trichloroethene              | <5.0             | ug/L   | 0.24           | 5.0               | 1.0      |
| 1,2-Dichloropropane          | <5.0             | ug/L   | 0.21           | 5.0               | 1.0      |
| Bromodichloromethane         | <5.0             | ug/L   | 0.19           | 5.0               | 1.0      |
| cis-1,3-Dichloropropene      | <5.0             | ug/L   | 0.17           | 5.0               | 1.0      |
| methyl isobutyl ketone       | <20              | ug/L   | 0.84           | 20                | 1.0      |
| Toluene                      | <5.0             | ug/L   | 0.19           | 5.0               | 1.0      |
| trans-1,3-Dichloropropene    | <5.0             | ug/L   | 0.24           | 5.0               | 1.0      |
| 1,1,2-Trichloroethane        | <5.0             | ug/L   | 0.26           | 5.0               | 1.0      |
| Tetrachloroethene            | <5.0             | ug/L   | 0.22           | 5.0               | 1.0      |
| 2-Hexanone                   | <20              | ug/L   | 0.80           | 20                | 1.0      |
| Dibromochloromethane         | <5.0             | ug/L   | 0.25           | 5.0               | 1.0      |
| Chlorobenzene                | <5.0             | ug/L   | 0.17           | 5.0               | 1.0      |
| Ethylbenzene                 | <5.0             | ug/L   | 0.18           | 5.0               | 1.0      |
| Styrene                      | <5.0             | ug/L   | 0.15           | 5.0               | 1.0      |
| Bromoform                    | <5.0             | ug/L   | 0.42           | 5.0               | 1.0      |
| 1,1,2,2-Tetrachloroethane    | <5.0             | ug/L   | 0.29           | 5.0               | 1.0      |
| Xylenes, Total               | <5.0             | ug/L   | 0.32           | 5.0               | 1.0      |
| Surrogate                    |                  |        |                | Acceptance Limits |          |
| 1,2-Dichloroethane-d4 (Surr) | 115              | %      |                | 80 - 129          |          |
| Toluene-d8 (Surr)            | 104              | %      |                | 80 - 120          |          |
| 4-Bromofluorobenzene (Surr)  | 99               | %      |                | 80 - 115          |          |

Ms. Mary Pearson  
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975 Burton Street  
Unit 10  
Beloit, WI 53511

Job Number: 500-29935-1

**Client Sample ID:** TRIP BLANK  
**Lab Sample ID:** 500-29935-11

Date Sampled: 12/16/2010 0000  
Date Received: 12/17/2010 1030  
Client Matrix: Water

| Analyte              | Result/Qualifier | Unit | MDL | RL | Dilution          |
|----------------------|------------------|------|-----|----|-------------------|
| Surrogate            |                  |      |     |    | Acceptance Limits |
| Dibromofluoromethane | 109              | %    |     |    | 80 - 124          |

## DATA REPORTING QUALIFIERS

Client: Environmental Information Logistics (EIL)

Job Number: 500-29935-1

| <b>Lab Section</b> | <b>Qualifier</b> | <b>Description</b>  |
|--------------------|------------------|---|
| GC/MS VOA          | *                | LCS or LCSD exceeds the control limits  |
|                    | 4                | MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable. |
|                    | E                | Result exceeded calibration range.  |

# **QUALITY CONTROL RESULTS**

## Quality Control Results

Client: Environmental Information Logistics (EIL)

Job Number: 500-29935-1

### QC Association Summary

| Lab Sample ID                    | Client Sample ID       | Report Basis | Client Matrix | Method | Prep Batch |
|----------------------------------|------------------------|--------------|---------------|--------|------------|
| <b>GC/MS VOA</b>                 |                        |              |               |        |            |
| <b>Analysis Batch:500-102231</b> |                        |              |               |        |            |
| LCS 500-102231/5                 | Lab Control Sample     | T            | Water         | 8260B  |            |
| MB 500-102231/4                  | Method Blank           | T            | Water         | 8260B  |            |
| 500-29935-1DL                    | IPC GW MW5             | T            | Water         | 8260B  |            |
| 500-29935-2DL                    | IPC GW MW6             | T            | Water         | 8260B  |            |
| 500-29935-4                      | IPC GW MW9             | T            | Water         | 8260B  |            |
| 500-29935-5DL                    | IPC GW MW7             | T            | Water         | 8260B  |            |
| 500-29935-7DL                    | IPC GW MW3             | T            | Water         | 8260B  |            |
| 500-29935-8DL                    | IPC GW MW2             | T            | Water         | 8260B  |            |
| 500-29935-10                     | IPC GW FB              | T            | Water         | 8260B  |            |
| 500-29935-11                     | TRIP BLANK             | T            | Water         | 8260B  |            |
| <b>Analysis Batch:500-102458</b> |                        |              |               |        |            |
| LCS 500-102458/6                 | Lab Control Sample     | T            | Water         | 8260B  |            |
| MB 500-102458/5                  | Method Blank           | T            | Water         | 8260B  |            |
| 500-29935-1                      | IPC GW MW5             | T            | Water         | 8260B  |            |
| 500-29935-1MS                    | Matrix Spike           | T            | Water         | 8260B  |            |
| 500-29935-1MSD                   | Matrix Spike Duplicate | T            | Water         | 8260B  |            |
| 500-29935-2                      | IPC GW MW6             | T            | Water         | 8260B  |            |
| 500-29935-3                      | IPC GW MW8             | T            | Water         | 8260B  |            |
| 500-29935-5                      | IPC GW MW7             | T            | Water         | 8260B  |            |
| 500-29935-6                      | IPC GW MW4             | T            | Water         | 8260B  |            |
| 500-29935-6DL                    | IPC GW MW4             | T            | Water         | 8260B  |            |
| 500-29935-7                      | IPC GW MW3             | T            | Water         | 8260B  |            |
| 500-29935-8                      | IPC GW MW2             | T            | Water         | 8260B  |            |
| 500-29935-9                      | IPC GW MW1             | T            | Water         | 8260B  |            |
| 500-29935-9DL                    | IPC GW MW1             | T            | Water         | 8260B  |            |

#### Report Basis

T = Total

**Surrogate Recovery Report****8260B Volatile Organic Compounds (GC/MS)****Client Matrix: Water**

| Lab Sample ID    | Client Sample ID | DCA<br>%Rec | TOL<br>%Rec | BFB<br>%Rec | DBFM<br>%Rec |
|------------------|------------------|-------------|-------------|-------------|--------------|
| 500-29935-1 DL   | IPC GW MW5 DL    | 113         | 104         | 101         | 100          |
| 500-29935-1      | IPC GW MW5       | 102         | 103         | 96          | 96           |
| 500-29935-2 DL   | IPC GW MW6 DL    | 115         | 106         | 102         | 109          |
| 500-29935-2      | IPC GW MW6       | 109         | 102         | 97          | 98           |
| 500-29935-3      | IPC GW MW8       | 109         | 104         | 99          | 105          |
| 500-29935-4      | IPC GW MW9       | 116         | 108         | 99          | 106          |
| 500-29935-5 DL   | IPC GW MW7 DL    | 112         | 103         | 99          | 106          |
| 500-29935-5      | IPC GW MW7       | 114         | 107         | 100         | 104          |
| 500-29935-6      | IPC GW MW4       | 111         | 103         | 98          | 103          |
| 500-29935-6 DL   | IPC GW MW4 DL    | 112         | 104         | 101         | 107          |
| 500-29935-7 DL   | IPC GW MW3 DL    | 114         | 105         | 98          | 111          |
| 500-29935-7      | IPC GW MW3       | 116         | 106         | 100         | 108          |
| 500-29935-8 DL   | IPC GW MW2 DL    | 117         | 104         | 99          | 109          |
| 500-29935-8      | IPC GW MW2       | 115         | 108         | 101         | 106          |
| 500-29935-9      | IPC GW MW1       | 111         | 105         | 99          | 104          |
| 500-29935-9 DL   | IPC GW MW1 DL    | 116         | 106         | 100         | 106          |
| 500-29935-10     | IPC GW FB        | 114         | 105         | 102         | 110          |
| 500-29935-11     | TRIP BLANK       | 115         | 104         | 99          | 109          |
| MB 500-102231/4  |                  | 108         | 98          | 97          | 97           |
| MB 500-102458/5  |                  | 117         | 105         | 102         | 104          |
| LCS 500-102231/5 |                  | 110         | 101         | 101         | 100          |
| LCS 500-102458/6 |                  | 111         | 103         | 101         | 103          |
| 500-29935-1 MS   | IPC GW MW5 MS    | 111         | 102         | 102         | 105          |
| 500-29935-1 MSD  | IPC GW MW5 MSD   | 110         | 103         | 101         | 102          |

| Surrogate                          | Acceptance Limits |
|------------------------------------|-------------------|
| DCA = 1,2-Dichloroethane-d4 (Surr) | 80-129            |
| TOL = Toluene-d8 (Surr)            | 80-120            |
| BFB = 4-Bromofluorobenzene (Surr)  | 80-115            |
| DBFM = Dibromofluoromethane        | 80-124            |

## Quality Control Results

Client: Environmental Information Logistics (EIL)

Job Number: 500-29935-1

### **Method Blank - Batch: 500-102231**

Lab Sample ID: MB 500-102231/4  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 12/19/2010 2051  
 Date Prepared: 12/19/2010 2051

Analysis Batch: 500-102231  
 Prep Batch: N/A  
 Units: ug/L

**Method: 8260B**  
**Preparation: 5030B**

Instrument ID: MS06  
 Lab File ID: 6M1219.D  
 Initial Weight/Volume: 10 mL  
 Final Weight/Volume: 10 mL

| Analyte                      | Result | Qual | MDL               | RL  |
|------------------------------|--------|------|-------------------|-----|
| Benzene                      | <5.0   |      | 0.17              | 5.0 |
| Chloromethane                | <5.0   |      | 0.24              | 5.0 |
| Vinyl chloride               | <2.0   |      | 0.20              | 2.0 |
| Bromomethane                 | <5.0   |      | 0.38              | 5.0 |
| Chloroethane                 | <5.0   |      | 0.36              | 5.0 |
| 1,1-Dichloroethene           | <5.0   |      | 0.19              | 5.0 |
| Carbon disulfide             | <5.0   |      | 0.55              | 5.0 |
| Acetone                      | <20    |      | 1.6               | 20  |
| Methylene Chloride           | <10    |      | 0.67              | 10  |
| trans-1,2-Dichloroethene     | <5.0   |      | 0.32              | 5.0 |
| 1,1-Dichloroethane           | <5.0   |      | 0.25              | 5.0 |
| cis-1,2-Dichloroethene       | <5.0   |      | 0.27              | 5.0 |
| Methyl Ethyl Ketone          | <20    |      | 2.3               | 20  |
| Chloroform                   | <5.0   |      | 0.15              | 5.0 |
| 1,1,1-Trichloroethane        | <5.0   |      | 0.18              | 5.0 |
| Carbon tetrachloride         | <5.0   |      | 0.25              | 5.0 |
| 1,2-Dichloroethane           | <5.0   |      | 0.24              | 5.0 |
| Trichloroethene              | <5.0   |      | 0.24              | 5.0 |
| 1,2-Dichloropropane          | <5.0   |      | 0.21              | 5.0 |
| Bromodichloromethane         | <5.0   |      | 0.19              | 5.0 |
| cis-1,3-Dichloropropene      | <5.0   |      | 0.17              | 5.0 |
| methyl isobutyl ketone       | <20    |      | 0.84              | 20  |
| Toluene                      | <5.0   |      | 0.19              | 5.0 |
| trans-1,3-Dichloropropene    | <5.0   |      | 0.24              | 5.0 |
| 1,1,2-Trichloroethane        | <5.0   |      | 0.26              | 5.0 |
| Tetrachloroethene            | <5.0   |      | 0.22              | 5.0 |
| 2-Hexanone                   | <20    |      | 0.80              | 20  |
| Dibromochloromethane         | <5.0   |      | 0.25              | 5.0 |
| Chlorobenzene                | <5.0   |      | 0.17              | 5.0 |
| Ethylbenzene                 | <5.0   |      | 0.18              | 5.0 |
| Styrene                      | <5.0   |      | 0.15              | 5.0 |
| Bromoform                    | <5.0   |      | 0.42              | 5.0 |
| 1,1,2,2-Tetrachloroethane    | <5.0   |      | 0.29              | 5.0 |
| Xylenes, Total               | <5.0   |      | 0.32              | 5.0 |
| <hr/>                        |        |      |                   |     |
| Surrogate                    | % Rec  |      | Acceptance Limits |     |
| 1,2-Dichloroethane-d4 (Surr) | 108    |      | 80 - 129          |     |
| Toluene-d8 (Surr)            | 98     |      | 80 - 120          |     |
| 4-Bromofluorobenzene (Surr)  | 97     |      | 80 - 115          |     |
| Dibromofluoromethane         | 97     |      | 80 - 124          |     |

## Quality Control Results

Client: Environmental Information Logistics (EIL)

Job Number: 500-29935-1

### Lab Control Sample - Batch: 500-102231

**Method: 8260B**  
**Preparation: 5030B**

Lab Sample ID: LCS 500-102231/5  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 12/19/2010 2110  
 Date Prepared: 12/19/2010 2110

Analysis Batch: 500-102231  
 Prep Batch: N/A  
 Units: ug/L

Instrument ID: MS06  
 Lab File ID: 6S1219.D  
 Initial Weight/Volume: 10 mL  
 Final Weight/Volume: 10 mL

| Analyte                      | Spike Amount | Result | % Rec. | Limit             | Qual |
|------------------------------|--------------|--------|--------|-------------------|------|
| Benzene                      | 25.0         | 20.6   | 82     | 73 - 117          |      |
| Chloromethane                | 25.0         | 22.9   | 92     | 51 - 151          |      |
| Vinyl chloride               | 25.0         | 20.6   | 83     | 56 - 128          |      |
| Bromomethane                 | 25.0         | 21.5   | 86     | 35 - 181          |      |
| Chloroethane                 | 25.0         | 23.9   | 95     | 52 - 150          |      |
| 1,1-Dichloroethene           | 25.0         | 16.9   | 67     | 55 - 127          |      |
| Carbon disulfide             | 25.0         | 14.6   | 59     | 38 - 123          |      |
| Acetone                      | 25.0         | 27.8   | 111    | 42 - 149          |      |
| Methylene Chloride           | 25.0         | 18.2   | 73     | 62 - 127          |      |
| trans-1,2-Dichloroethene     | 25.0         | 17.3   | 69     | 67 - 125          |      |
| 1,1-Dichloroethane           | 25.0         | 19.5   | 78     | 67 - 122          |      |
| cis-1,2-Dichloroethene       | 25.0         | 17.3   | 69     | 65 - 115          |      |
| Methyl Ethyl Ketone          | 25.0         | 30.1   | 120    | 52 - 148          |      |
| Chloroform                   | 25.0         | 20.2   | 81     | 74 - 121          |      |
| 1,1,1-Trichloroethane        | 25.0         | 17.6   | 71     | 76 - 127          | *    |
| Carbon tetrachloride         | 25.0         | 17.2   | 69     | 66 - 138          |      |
| 1,2-Dichloroethane           | 25.0         | 21.6   | 86     | 71 - 124          |      |
| Trichloroethene              | 25.0         | 19.2   | 77     | 77 - 118          |      |
| 1,2-Dichloropropane          | 25.0         | 21.9   | 88     | 75 - 120          |      |
| Bromodichloromethane         | 25.0         | 21.2   | 85     | 79 - 124          |      |
| cis-1,3-Dichloropropene      | 26.9         | 21.7   | 81     | 66 - 122          |      |
| methyl isobutyl ketone       | 25.0         | 24.9   | 100    | 58 - 134          |      |
| Toluene                      | 25.0         | 20.5   | 82     | 76 - 119          |      |
| trans-1,3-Dichloropropene    | 24.3         | 21.4   | 88     | 66 - 110          |      |
| 1,1,2-Trichloroethane        | 25.0         | 22.5   | 90     | 70 - 127          |      |
| Tetrachloroethene            | 25.0         | 20.4   | 81     | 76 - 116          |      |
| 2-Hexanone                   | 25.0         | 25.0   | 100    | 54 - 140          |      |
| Dibromochloromethane         | 25.0         | 20.3   | 81     | 68 - 122          |      |
| Chlorobenzene                | 25.0         | 21.1   | 84     | 78 - 113          |      |
| Ethylbenzene                 | 25.0         | 20.7   | 83     | 80 - 116          |      |
| Styrene                      | 25.0         | 20.9   | 84     | 80 - 120          |      |
| Bromoform                    | 25.0         | 21.7   | 87     | 59 - 122          |      |
| 1,1,2,2-Tetrachloroethane    | 25.0         | 22.5   | 90     | 70 - 123          |      |
| Xylenes, Total               | 75.0         | 63.5   | 85     | 79 - 120          |      |
| Surrogate                    |              | % Rec  |        | Acceptance Limits |      |
| 1,2-Dichloroethane-d4 (Surr) |              | 110    |        | 80 - 129          |      |
| Toluene-d8 (Surr)            |              | 101    |        | 80 - 120          |      |
| 4-Bromofluorobenzene (Surr)  |              | 101    |        | 80 - 115          |      |
| Dibromofluoromethane         |              | 100    |        | 80 - 124          |      |

## Quality Control Results

Client: Environmental Information Logistics (EIL)

Job Number: 500-29935-1

### **Method Blank - Batch: 500-102458**

Lab Sample ID: MB 500-102458/5  
 Client Matrix: Water  
 Dilution: 1.0  
 Date Analyzed: 12/21/2010 1306  
 Date Prepared: 12/21/2010 1306

Analysis Batch: 500-102458  
 Prep Batch: N/A  
 Units: ug/L

**Method: 8260B**  
**Preparation: 5030B**

Instrument ID: MS06  
 Lab File ID: 6M1221.D  
 Initial Weight/Volume: 10 mL  
 Final Weight/Volume: 10 mL

| Analyte                      | Result | Qual              | MDL  | RL  |
|------------------------------|--------|-------------------|------|-----|
| Benzene                      | <5.0   |                   | 0.17 | 5.0 |
| Chloromethane                | <5.0   |                   | 0.24 | 5.0 |
| Vinyl chloride               | <2.0   |                   | 0.20 | 2.0 |
| Bromomethane                 | <5.0   |                   | 0.38 | 5.0 |
| Chloroethane                 | <5.0   |                   | 0.36 | 5.0 |
| 1,1-Dichloroethene           | <5.0   |                   | 0.19 | 5.0 |
| Carbon disulfide             | <5.0   |                   | 0.55 | 5.0 |
| Acetone                      | <20    |                   | 1.6  | 20  |
| Methylene Chloride           | <10    |                   | 0.67 | 10  |
| trans-1,2-Dichloroethene     | <5.0   |                   | 0.32 | 5.0 |
| 1,1-Dichloroethane           | <5.0   |                   | 0.25 | 5.0 |
| cis-1,2-Dichloroethene       | <5.0   |                   | 0.27 | 5.0 |
| Methyl Ethyl Ketone          | <20    |                   | 2.3  | 20  |
| Chloroform                   | <5.0   |                   | 0.15 | 5.0 |
| 1,1,1-Trichloroethane        | <5.0   |                   | 0.18 | 5.0 |
| Carbon tetrachloride         | <5.0   |                   | 0.25 | 5.0 |
| 1,2-Dichloroethane           | <5.0   |                   | 0.24 | 5.0 |
| Trichloroethene              | <5.0   |                   | 0.24 | 5.0 |
| 1,2-Dichloropropane          | <5.0   |                   | 0.21 | 5.0 |
| Bromodichloromethane         | <5.0   |                   | 0.19 | 5.0 |
| cis-1,3-Dichloropropene      | <5.0   |                   | 0.17 | 5.0 |
| methyl isobutyl ketone       | <20    |                   | 0.84 | 20  |
| Toluene                      | <5.0   |                   | 0.19 | 5.0 |
| trans-1,3-Dichloropropene    | <5.0   |                   | 0.24 | 5.0 |
| 1,1,2-Trichloroethane        | <5.0   |                   | 0.26 | 5.0 |
| Tetrachloroethene            | <5.0   |                   | 0.22 | 5.0 |
| 2-Hexanone                   | <20    |                   | 0.80 | 20  |
| Dibromochloromethane         | <5.0   |                   | 0.25 | 5.0 |
| Chlorobenzene                | <5.0   |                   | 0.17 | 5.0 |
| Ethylbenzene                 | <5.0   |                   | 0.18 | 5.0 |
| Styrene                      | <5.0   |                   | 0.15 | 5.0 |
| Bromoform                    | <5.0   |                   | 0.42 | 5.0 |
| 1,1,2,2-Tetrachloroethane    | <5.0   |                   | 0.29 | 5.0 |
| Xylenes, Total               | <5.0   |                   | 0.32 | 5.0 |
| <hr/>                        |        |                   |      |     |
| Surrogate                    | % Rec  | Acceptance Limits |      |     |
| 1,2-Dichloroethane-d4 (Surr) | 117    | 80 - 129          |      |     |
| Toluene-d8 (Surr)            | 105    | 80 - 120          |      |     |
| 4-Bromofluorobenzene (Surr)  | 102    | 80 - 115          |      |     |
| Dibromofluoromethane         | 104    | 80 - 124          |      |     |

## Quality Control Results

Client: Environmental Information Logistics (EIL)

Job Number: 500-29935-1

### Lab Control Sample - Batch: 500-102458

**Method: 8260B**  
**Preparation: 5030B**

Lab Sample ID: LCS 500-102458/6  
Client Matrix: Water  
Dilution: 1.0  
Date Analyzed: 12/21/2010 1328  
Date Prepared: 12/21/2010 1328

Analysis Batch: 500-102458  
Prep Batch: N/A  
Units: ug/L

Instrument ID: MS06  
Lab File ID: 6S1221.D  
Initial Weight/Volume: 10 mL  
Final Weight/Volume: 10 mL

| Analyte                      | Spike Amount | Result | % Rec. | Limit             | Qual |
|------------------------------|--------------|--------|--------|-------------------|------|
| Benzene                      | 25.0         | 22.3   | 89     | 73 - 117          |      |
| Chloromethane                | 25.0         | 25.9   | 104    | 51 - 151          |      |
| Vinyl chloride               | 25.0         | 25.3   | 101    | 56 - 128          |      |
| Bromomethane                 | 25.0         | 28.0   | 112    | 35 - 181          |      |
| Chloroethane                 | 25.0         | 27.7   | 111    | 52 - 150          |      |
| 1,1-Dichloroethene           | 25.0         | 18.0   | 72     | 55 - 127          |      |
| Carbon disulfide             | 25.0         | 15.7   | 63     | 38 - 123          |      |
| Acetone                      | 25.0         | 20.6   | 82     | 42 - 149          |      |
| Methylene Chloride           | 25.0         | 20.7   | 83     | 62 - 127          |      |
| trans-1,2-Dichloroethene     | 25.0         | 19.8   | 79     | 67 - 125          |      |
| 1,1-Dichloroethane           | 25.0         | 21.5   | 86     | 67 - 122          |      |
| cis-1,2-Dichloroethene       | 25.0         | 19.8   | 79     | 65 - 115          |      |
| Methyl Ethyl Ketone          | 25.0         | 31.6   | 126    | 52 - 148          |      |
| Chloroform                   | 25.0         | 22.7   | 91     | 74 - 121          |      |
| 1,1,1-Trichloroethane        | 25.0         | 20.1   | 80     | 76 - 127          |      |
| Carbon tetrachloride         | 25.0         | 18.7   | 75     | 66 - 138          |      |
| 1,2-Dichloroethane           | 25.0         | 24.1   | 96     | 71 - 124          |      |
| Trichloroethene              | 25.0         | 20.8   | 83     | 77 - 118          |      |
| 1,2-Dichloropropane          | 25.0         | 23.9   | 96     | 75 - 120          |      |
| Bromodichloromethane         | 25.0         | 22.9   | 92     | 79 - 124          |      |
| cis-1,3-Dichloropropene      | 26.9         | 24.1   | 90     | 66 - 122          |      |
| methyl isobutyl ketone       | 25.0         | 29.1   | 116    | 58 - 134          |      |
| Toluene                      | 25.0         | 23.0   | 92     | 76 - 119          |      |
| trans-1,3-Dichloropropene    | 24.3         | 23.4   | 96     | 66 - 110          |      |
| 1,1,2-Trichloroethane        | 25.0         | 25.6   | 102    | 70 - 127          |      |
| Tetrachloroethene            | 25.0         | 21.2   | 85     | 76 - 116          |      |
| 2-Hexanone                   | 25.0         | 27.5   | 110    | 54 - 140          |      |
| Dibromochloromethane         | 25.0         | 22.0   | 88     | 68 - 122          |      |
| Chlorobenzene                | 25.0         | 22.7   | 91     | 78 - 113          |      |
| Ethylbenzene                 | 25.0         | 22.2   | 89     | 80 - 116          |      |
| Styrene                      | 25.0         | 22.2   | 89     | 80 - 120          |      |
| Bromoform                    | 25.0         | 23.0   | 92     | 59 - 122          |      |
| 1,1,2,2-Tetrachloroethane    | 25.0         | 23.8   | 95     | 70 - 123          |      |
| Xylenes, Total               | 75.0         | 68.0   | 91     | 79 - 120          |      |
| Surrogate                    |              | % Rec  |        | Acceptance Limits |      |
| 1,2-Dichloroethane-d4 (Surr) |              | 111    |        | 80 - 129          |      |
| Toluene-d8 (Surr)            |              | 103    |        | 80 - 120          |      |
| 4-Bromofluorobenzene (Surr)  |              | 101    |        | 80 - 115          |      |
| Dibromofluoromethane         |              | 103    |        | 80 - 124          |      |

## Quality Control Results

Client: Environmental Information Logistics (EIL)

Job Number: 500-29935-1

### **Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 500-102458**

**Method: 8260B  
Preparation: 5030B**

MS Lab Sample ID: 500-29935-1      Analysis Batch: 500-102458  
 Client Matrix: Water      Prep Batch: N/A  
 Dilution: 1.0  
 Date Analyzed: 12/21/2010 1504  
 Date Prepared: 12/21/2010 1504

Instrument ID: MS06  
 Lab File ID: 9935-01S.D  
 Initial Weight/Volume: 10 mL  
 Final Weight/Volume: 10 mL

---

MSD Lab Sample ID: 500-29935-1      Analysis Batch: 500-102458  
 Client Matrix: Water      Prep Batch: N/A  
 Dilution: 1.0  
 Date Analyzed: 12/21/2010 1525  
 Date Prepared: 12/21/2010 1525

Instrument ID: MS06  
 Lab File ID: 9935-01T.D  
 Initial Weight/Volume: 10 mL  
 Final Weight/Volume: 10 mL

| Analyte                   | % Rec. |     | Limit    | RPD | RPD Limit | MS Qual | MSD Qual |
|---------------------------|--------|-----|----------|-----|-----------|---------|----------|
|                           | MS     | MSD |          |     |           |         |          |
| Benzene                   | 99     | 96  | 73 - 117 | 4   | 20        |         |          |
| Chloromethane             | 119    | 111 | 51 - 151 | 7   | 20        |         |          |
| Vinyl chloride            | 111    | 105 | 56 - 128 | 5   | 20        |         |          |
| Bromomethane              | 111    | 98  | 35 - 181 | 12  | 20        |         |          |
| Chloroethane              | 104    | 95  | 52 - 150 | 9   | 20        |         |          |
| 1,1-Dichloroethene        | 70     | 71  | 55 - 127 | 1   | 20        |         |          |
| Carbon disulfide          | 70     | 68  | 38 - 123 | 3   | 20        |         |          |
| Acetone                   | 109    | 100 | 42 - 149 | 8   | 20        |         |          |
| Methylene Chloride        | 89     | 85  | 62 - 127 | 5   | 20        |         |          |
| trans-1,2-Dichloroethene  | 87     | 83  | 67 - 125 | 4   | 20        |         |          |
| 1,1-Dichloroethane        | 96     | 90  | 67 - 122 | 5   | 20        |         |          |
| cis-1,2-Dichloroethene    | 92     | 72  | 65 - 115 | 4   | 20        | E 4     | E 4      |
| Methyl Ethyl Ketone       | 145    | 121 | 52 - 148 | 18  | 20        |         |          |
| Chloroform                | 101    | 93  | 74 - 121 | 8   | 20        |         |          |
| 1,1,1-Trichloroethane     | 85     | 80  | 76 - 127 | 3   | 20        |         |          |
| Carbon tetrachloride      | 83     | 81  | 66 - 138 | 3   | 20        |         |          |
| 1,2-Dichloroethane        | 108    | 103 | 71 - 124 | 5   | 20        |         |          |
| Trichloroethene           | 93     | 61  | 77 - 118 | 4   | 20        | E 4     | E 4      |
| 1,2-Dichloropropane       | 105    | 101 | 75 - 120 | 4   | 20        |         |          |
| Bromodichloromethane      | 102    | 97  | 79 - 124 | 4   | 20        |         |          |
| cis-1,3-Dichloropropene   | 96     | 93  | 66 - 122 | 3   | 20        |         |          |
| methyl isobutyl ketone    | 122    | 121 | 58 - 134 | 0   | 20        |         |          |
| Toluene                   | 98     | 96  | 76 - 119 | 1   | 20        |         |          |
| trans-1,3-Dichloropropene | 103    | 101 | 66 - 110 | 2   | 20        |         |          |
| 1,1,2-Trichloroethane     | 105    | 103 | 70 - 127 | 1   | 20        |         |          |
| Tetrachloroethene         | 83     | 81  | 76 - 116 | 1   | 20        |         |          |
| 2-Hexanone                | 119    | 110 | 54 - 140 | 7   | 20        |         |          |
| Dibromochloromethane      | 95     | 96  | 68 - 122 | 1   | 20        |         |          |
| Chlorobenzene             | 99     | 97  | 78 - 113 | 1   | 20        |         |          |
| Ethylbenzene              | 100    | 98  | 80 - 116 | 2   | 20        |         |          |

## Quality Control Results

Client: Environmental Information Logistics (EIL)

Job Number: 500-29935-1

### Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 500-102458

**Method: 8260B**  
**Preparation: 5030B**

MS Lab Sample ID: 500-29935-1      Analysis Batch: 500-102458  
Client Matrix: Water      Prep Batch: N/A  
Dilution: 1.0  
Date Analyzed: 12/21/2010 1504  
Date Prepared: 12/21/2010 1504

Instrument ID: MS06  
Lab File ID: 9935-01S.D  
Initial Weight/Volume: 10 mL  
Final Weight/Volume: 10 mL

---

MSD Lab Sample ID: 500-29935-1      Analysis Batch: 500-102458  
Client Matrix: Water      Prep Batch: N/A  
Dilution: 1.0  
Date Analyzed: 12/21/2010 1525  
Date Prepared: 12/21/2010 1525

Instrument ID: MS06  
Lab File ID: 9935-01T.D  
Initial Weight/Volume: 10 mL  
Final Weight/Volume: 10 mL

| Analyte                      | % Rec.   |     | Limit     | RPD | RPD Limit         | MS Qual | MSD Qual |
|------------------------------|----------|-----|-----------|-----|-------------------|---------|----------|
|                              | MS       | MSD |           |     |                   |         |          |
| Styrene                      | 99       | 95  | 80 - 120  | 5   | 20                |         |          |
| Bromoform                    | 102      | 100 | 59 - 122  | 3   | 20                |         |          |
| 1,1,2,2-Tetrachloroethane    | 102      | 102 | 70 - 123  | 0   | 20                |         |          |
| Xylenes, Total               | 101      | 98  | 79 - 120  | 3   | 20                |         |          |
| Surrogate                    | MS % Rec |     | MSD % Rec |     | Acceptance Limits |         |          |
| 1,2-Dichloroethane-d4 (Surr) | 111      |     | 110       |     | 80 - 129          |         |          |
| Toluene-d8 (Surr)            | 102      |     | 103       |     | 80 - 120          |         |          |
| 4-Bromofluorobenzene (Surr)  | 102      |     | 101       |     | 80 - 115          |         |          |
| Dibromofluoromethane         | 105      |     | 102       |     | 80 - 124          |         |          |

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484  
Phone: 708.534.5200 Fax: 708.534.5211

|  |                           |
|--|---------------------------|
| (optional)   |                           |
| Report To<br>Contact: <u>Mary Persons / Michael Hart</u> | Bill To<br>Contact: _____ |
| Company: <u>EIL</u>                                      | Company: _____            |
| Address: _____   | Address: _____            |
| Address: _____   | Phone: _____              |
| Phone: <u>608 365 8276 / 630 834 8841</u>                | Fax: _____                |
| Fax: _____   | Fax: _____                |
| E-Mail: _____  |                           |
| PO# Reference#: _____                                    |                           |

## Chain of Custody Record

500-29935

Lab Job #:

Chain of Custody Number:

Page \_\_\_\_\_ of \_\_\_\_\_

2.1

Temperature °C of Cooler:

2.1

| ID | NSF/MSD | Sample ID  | Sampling |      | # of Containers | Matrix |  |  |  |  |  |  | Preservative Key |  |
|----|---------|------------|----------|------|-----------------|--------|--|--|--|--|--|--|------------------|--|
|    |         |            | Date     | Time |                 |        |  |  |  |  |  |  |                  |  |
| 1  | X       | IPG-GW-MWS | 12/16/10 | 1024 | 39              | W      |  |  |  |  |  |  |                  |  |
| 2  |         | IPG-GW-MW6 |          | 1102 | 3               |        |  |  |  |  |  |  |                  |  |
| 3  |         | IPG-GW-MW8 |          | 1215 | 1               |        |  |  |  |  |  |  |                  |  |
| 4  |         | IPG-GW-MW9 |          | 1237 | 1               |        |  |  |  |  |  |  |                  |  |
| 5  |         | IPG-GW-MW7 |          | 1255 | 1               |        |  |  |  |  |  |  |                  |  |
| 6  |         | IPG-GW-MW4 |          | 1329 | 1               |        |  |  |  |  |  |  |                  |  |
| 7  |         | IPG-GW-MW3 |          | 1407 | 1               |        |  |  |  |  |  |  |                  |  |
| 8  |         | IPG-GW-MW2 |          | 1432 | 1               |        |  |  |  |  |  |  |                  |  |
| 9  |         | IPG-GW-MW1 |          | 1504 | 1               |        |  |  |  |  |  |  |                  |  |
| 10 |         | IPG-GW-FB  |          | 1510 | 1               |        |  |  |  |  |  |  |                  |  |

### Turnaround Time Required (Business Days)

1 Day    2 Days    5 Days    7 Days    10 Days    15 Days    Other  Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

|   |                                     |                                  |                                  |   |                                     |                                  |                                  |  |
|---|-------------------------------------|----------------------------------|----------------------------------|---|-------------------------------------|----------------------------------|----------------------------------|--|
| Relinquished By<br><u>V</u>                 | Company<br><u>C&amp;S Inc.</u>      | Date<br><u>12/16/10</u>          | Time<br><u>1600</u>              | Received By<br><u>MH</u>                | Company<br><u>TA</u>                | Date<br><u>12/17/10</u>          | Time<br><u>1030</u>              | Lab Courier<br><input type="checkbox"/>    |
| Relinquished By<br><input type="checkbox"/> | Company<br><input type="checkbox"/> | Date<br><input type="checkbox"/> | Time<br><input type="checkbox"/> | Received By<br><input type="checkbox"/> | Company<br><input type="checkbox"/> | Date<br><input type="checkbox"/> | Time<br><input type="checkbox"/> | Shipped<br><u>FX</u>                       |
| Relinquished By<br><input type="checkbox"/> | Company<br><input type="checkbox"/> | Date<br><input type="checkbox"/> | Time<br><input type="checkbox"/> | Received By<br><input type="checkbox"/> | Company<br><input type="checkbox"/> | Date<br><input type="checkbox"/> | Time<br><input type="checkbox"/> | Hand Delivered<br><input type="checkbox"/> |

Matrix Key  
WW - Wastewater    SE - Sediment  
W - Water    SO - Soil  
S - Soil    L - Leachate  
SL - Sludge    WI - Wipe  
MS - Miscellaneous    DW - Drinking Water  
OL - Oil    O - Other  
A - Air

Client Comments

Lab Comments:

11 - Trip blank - added by TA

## Login Sample Receipt Check List

Client: Environmental Information Logistics (EIL)

Job Number: 500-29935-1

**Login Number: 29935**

**List Source: TestAmerica Chicago**

**Creator: Lunt, Jeff T**

**List Number: 1**

| Question   | T / F / NA | Comment |
|--|------------|---------|
| Radioactivity either was not measured or, if measured, is at or below background | True       |         |
| The cooler's custody seal, if present, is intact.                                | True       |         |
| The cooler or samples do not appear to have been compromised or tampered with.   | True       |         |
| Samples were received on ice.  | True       | 2.1     |
| Cooler Temperature is acceptable.  | True       |         |
| Cooler Temperature is recorded.  | True       |         |
| COC is present.  | True       |         |
| COC is filled out in ink and legible.  | True       |         |
| COC is filled out with all pertinent information.                                | True       |         |
| Is the Field Sampler's name present on COC?                                      | True       |         |
| There are no discrepancies between the sample IDs on the containers and the COC. | True       |         |
| Samples are received within Holding Time.  | True       |         |
| Sample containers have legible labels.   | True       |         |
| Containers are not broken or leaking.  | True       |         |
| Sample collection date/times are provided.                                       | True       |         |
| Appropriate sample containers are used.  | True       |         |
| Sample bottles are completely filled.  | True       |         |
| Sample Preservation Verified   | True       |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True       |         |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.     | True       |         |
| If necessary, staff have been informed of any short hold time or quick TAT needs | True       |         |
| Multiphasic samples are not present.   | True       |         |
| Samples do not require splitting or compositing.                                 | True       |         |

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Chicago

2417 Bond Street

University Park, IL 60484

Tel: (708)534-5200

TestAmerica Job ID: 500-35654-1

Client Project/Site: Interstate Pollution Control Site

Revision: 1

For:

Environmental Information Logistics (EIL)

975 Burton Street

Unit 10

Beloit, Wisconsin 53511

Attn: Ms. Mary Pearson



Authorized for release by:

08/22/2011 02:44:07 PM

Richard Wright

Project Manager II

[richard.wright@testamericainc.com](mailto:richard.wright@testamericainc.com)

### LINKS

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Results relate only to the items tested and the sample(s) as received by the laboratory. The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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## Case Narrative

Client: Environmental Information Logistics (EIL)  
Project/Site: Interstate Pollution Control Site

TestAmerica Job ID: 500-35654-1

**Job ID: 500-35654-1**

**Laboratory: TestAmerica Chicago**

### Narrative

**Job Narrative  
500-35654-1**

### Comments

No additional comments.

### Receipt

We received 2 additional samples not on the COC, with sample ID's (IPCFB) and (Trip Blank). These were added to the COC per discussion with EIL

Per client request, the data for job 500-35654 was re-evaluated for the compound 1,1,1-Trichloroethane. It was found that in samples -2, -3, -4, -5 and -6 the compound was originally reported as non-detect but was actually detected in the sample and not reported. The data has been corrected. A new report has been issued and a corrective action report has been generated.

All other samples were received in good condition within temperature requirements.

### GC/MS VOA

Method(s) 8260B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for bromomethane, cis-1,2-dichloroethene, chloroform and 1,1,1-trichloroethane were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No other analytical or quality issues were noted.

## Detection Summary

Client: Environmental Information Logistics (EIL)  
 Project/Site: Interstate Pollution Control Site

TestAmerica Job ID: 500-35654-1

### Client Sample ID: IPCGWMW1

### Lab Sample ID: 500-35654-1

| Analyte                | Result | Qualifier | RL  | MDL  | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| Vinyl chloride         | 19     |           | 2.0 | 0.13 | ug/L | 1       |   | 8260B  | Total/NA  |
| 1,1-Dichloroethene     | 12     |           | 5.0 | 0.29 | ug/L | 1       |   | 8260B  | Total/NA  |
| 1,1-Dichloroethane     | 15     |           | 5.0 | 0.24 | ug/L | 1       |   | 8260B  | Total/NA  |
| cis-1,2-Dichloroethene | 140    |           | 5.0 | 0.22 | ug/L | 1       |   | 8260B  | Total/NA  |
| Trichloroethene        | 9.1    |           | 5.0 | 0.18 | ug/L | 1       |   | 8260B  | Total/NA  |

### Client Sample ID: IPCGWMW2

### Lab Sample ID: 500-35654-2

| Analyte                | Result | Qualifier | RL  | MDL  | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| 1,1-Dichloroethene     | 22     |           | 5.0 | 0.29 | ug/L | 1       |   | 8260B  | Total/NA  |
| cis-1,2-Dichloroethene | 59     |           | 5.0 | 0.22 | ug/L | 1       |   | 8260B  | Total/NA  |
| 1,1,1-Trichloroethane  | 21     |           | 5.0 | 0.26 | ug/L | 1       |   | 8260B  | Total/NA  |
| Trichloroethene        | 150    |           | 5.0 | 0.18 | ug/L | 1       |   | 8260B  | Total/NA  |
| Tetrachloroethene      | 31     |           | 5.0 | 0.22 | ug/L | 1       |   | 8260B  | Total/NA  |

### Client Sample ID: IPCGWMW3

### Lab Sample ID: 500-35654-3

| Analyte                | Result | Qualifier | RL  | MDL  | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| 1,1-Dichloroethene     | 22     |           | 5.0 | 0.29 | ug/L | 1       |   | 8260B  | Total/NA  |
| 1,1-Dichloroethane     | 5.7    |           | 5.0 | 0.24 | ug/L | 1       |   | 8260B  | Total/NA  |
| cis-1,2-Dichloroethene | 65     |           | 5.0 | 0.22 | ug/L | 1       |   | 8260B  | Total/NA  |
| 1,1,1-Trichloroethane  | 24     |           | 5.0 | 0.26 | ug/L | 1       |   | 8260B  | Total/NA  |
| Trichloroethene        | 180    |           | 5.0 | 0.18 | ug/L | 1       |   | 8260B  | Total/NA  |
| Tetrachloroethene      | 43     |           | 5.0 | 0.22 | ug/L | 1       |   | 8260B  | Total/NA  |

### Client Sample ID: IPCGWMW4

### Lab Sample ID: 500-35654-4

| Analyte                | Result | Qualifier | RL  | MDL  | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| Vinyl chloride         | 60     |           | 2.0 | 0.13 | ug/L | 1       |   | 8260B  | Total/NA  |
| 1,1-Dichloroethene     | 5.9    |           | 5.0 | 0.29 | ug/L | 1       |   | 8260B  | Total/NA  |
| 1,1-Dichloroethane     | 24     |           | 5.0 | 0.24 | ug/L | 1       |   | 8260B  | Total/NA  |
| cis-1,2-Dichloroethene | 88     |           | 5.0 | 0.22 | ug/L | 1       |   | 8260B  | Total/NA  |
| 1,1,1-Trichloroethane  | 13     |           | 5.0 | 0.26 | ug/L | 1       |   | 8260B  | Total/NA  |

### Client Sample ID: IPCGWMW5

### Lab Sample ID: 500-35654-5

| Analyte                | Result | Qualifier | RL  | MDL  | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| Vinyl chloride         | 6.3    |           | 2.0 | 0.13 | ug/L | 1       |   | 8260B  | Total/NA  |
| 1,1-Dichloroethene     | 24     |           | 5.0 | 0.29 | ug/L | 1       |   | 8260B  | Total/NA  |
| 1,1-Dichloroethane     | 6.6    |           | 5.0 | 0.24 | ug/L | 1       |   | 8260B  | Total/NA  |
| cis-1,2-Dichloroethene | 130    |           | 5.0 | 0.22 | ug/L | 1       |   | 8260B  | Total/NA  |
| 1,1,1-Trichloroethane  | 28     |           | 5.0 | 0.26 | ug/L | 1       |   | 8260B  | Total/NA  |
| Trichloroethene        | 160    |           | 5.0 | 0.18 | ug/L | 1       |   | 8260B  | Total/NA  |
| Tetrachloroethene      | 38     |           | 5.0 | 0.22 | ug/L | 1       |   | 8260B  | Total/NA  |

### Client Sample ID: IPCGWMW6

### Lab Sample ID: 500-35654-6

| Analyte                | Result | Qualifier | RL  | MDL  | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| Vinyl chloride         | 10     |           | 2.0 | 0.13 | ug/L | 1       |   | 8260B  | Total/NA  |
| 1,1-Dichloroethene     | 19     |           | 5.0 | 0.29 | ug/L | 1       |   | 8260B  | Total/NA  |
| 1,1-Dichloroethane     | 11     |           | 5.0 | 0.24 | ug/L | 1       |   | 8260B  | Total/NA  |
| cis-1,2-Dichloroethene | 91     |           | 5.0 | 0.22 | ug/L | 1       |   | 8260B  | Total/NA  |
| 1,1,1-Trichloroethane  | 26     |           | 5.0 | 0.26 | ug/L | 1       |   | 8260B  | Total/NA  |
| Trichloroethene        | 130    |           | 5.0 | 0.18 | ug/L | 1       |   | 8260B  | Total/NA  |

## Detection Summary

Client: Environmental Information Logistics (EIL)  
Project/Site: Interstate Pollution Control Site

TestAmerica Job ID: 500-35654-1

### Client Sample ID: IPCGWMW6 (Continued)

Lab Sample ID: 500-35654-6

| Analyte           | Result | Qualifier | RL  | MDL  | Unit | Dil Fac | D | Method | Prep Type |
|-------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| Tetrachloroethene | 32     |           | 5.0 | 0.22 | ug/L | 1       |   | 8260B  | Total/NA  |

### Client Sample ID: IPCGWMW7

Lab Sample ID: 500-35654-7

| Analyte                | Result | Qualifier | RL  | MDL  | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| Vinyl chloride         | 20     |           | 2.0 | 0.13 | ug/L | 1       |   | 8260B  | Total/NA  |
| 1,1-Dichloroethene     | 13     |           | 5.0 | 0.29 | ug/L | 1       |   | 8260B  | Total/NA  |
| 1,1-Dichloroethane     | 16     |           | 5.0 | 0.24 | ug/L | 1       |   | 8260B  | Total/NA  |
| cis-1,2-Dichloroethene | 160    |           | 5.0 | 0.22 | ug/L | 1       |   | 8260B  | Total/NA  |
| Trichloroethene        | 10     |           | 5.0 | 0.18 | ug/L | 1       |   | 8260B  | Total/NA  |

### Client Sample ID: IPCGWMW8

Lab Sample ID: 500-35654-8

| Analyte                | Result | Qualifier | RL  | MDL  | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| 1,1-Dichloroethane     | 7.9    |           | 5.0 | 0.24 | ug/L | 1       |   | 8260B  | Total/NA  |
| cis-1,2-Dichloroethene | 17     |           | 5.0 | 0.22 | ug/L | 1       |   | 8260B  | Total/NA  |
| Trichloroethene        | 28     |           | 5.0 | 0.18 | ug/L | 1       |   | 8260B  | Total/NA  |

### Client Sample ID: IPCGWMW9

Lab Sample ID: 500-35654-9

No Detections

### Client Sample ID: IPCFB

Lab Sample ID: 500-35654-10

No Detections

### Client Sample ID: TRIP BLANK

Lab Sample ID: 500-35654-11

No Detections

## Method Summary

Client: Environmental Information Logistics (EIL)  
Project/Site: Interstate Pollution Control Site

TestAmerica Job ID: 500-35654-1

| Method | Method Description                 | Protocol | Laboratory |
|--------|------------------------------------|----------|------------|
| 8260B  | Volatile Organic Compounds (GC/MS) | SW846    | TAL CHI    |

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

## Sample Summary

Client: Environmental Information Logistics (EIL)  
Project/Site: Interstate Pollution Control Site

TestAmerica Job ID: 500-35654-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 500-35654-1   | IPCGWMW1         | Water  | 06/20/11 13:52 | 06/21/11 10:15 |
| 500-35654-2   | IPCGWMW2         | Water  | 06/20/11 13:34 | 06/21/11 10:15 |
| 500-35654-3   | IPCGWMW3         | Water  | 06/20/11 13:10 | 06/21/11 10:15 |
| 500-35654-4   | IPCGWMW4         | Water  | 06/20/11 12:50 | 06/21/11 10:15 |
| 500-35654-5   | IPCGWMW5         | Water  | 06/20/11 12:25 | 06/21/11 10:15 |
| 500-35654-6   | IPCGWMW6         | Water  | 06/20/11 11:58 | 06/21/11 10:15 |
| 500-35654-7   | IPCGWMW7         | Water  | 06/20/11 10:10 | 06/21/11 10:15 |
| 500-35654-8   | IPCGWMW8         | Water  | 06/20/11 09:36 | 06/21/11 10:15 |
| 500-35654-9   | IPCGWMW9         | Water  | 06/20/11 09:54 | 06/21/11 10:15 |
| 500-35654-10  | IPCFB            | Water  | 06/20/11 14:00 | 06/21/11 10:15 |
| 500-35654-11  | TRIP BLANK       | Water  | 06/20/11 00:00 | 06/21/11 10:15 |

# Client Sample Results

Client: Environmental Information Logistics (EIL)  
 Project/Site: Interstate Pollution Control Site

TestAmerica Job ID: 500-35654-1

**Client Sample ID: IPCGWMW1**

**Lab Sample ID: 500-35654-1**

Date Collected: 06/20/11 13:52

Matrix: Water

Date Received: 06/21/11 10:15

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

| Analyte                       | Result            | Qualifier        | RL            | MDL  | Unit | D               | Prepared        | Analyzed       | Dil Fac |
|-------------------------------|-------------------|------------------|---------------|------|------|-----------------|-----------------|----------------|---------|
| Benzene                       | <5.0              |                  | 5.0           | 0.12 | ug/L |                 |                 | 06/30/11 13:30 | 1       |
| Chloromethane                 | <5.0              |                  | 5.0           | 0.24 | ug/L |                 |                 | 06/30/11 13:30 | 1       |
| <b>Vinyl chloride</b>         | <b>19</b>         |                  | 2.0           | 0.13 | ug/L |                 |                 | 06/30/11 13:30 | 1       |
| Bromomethane                  | <5.0              |                  | 5.0           | 0.49 | ug/L |                 |                 | 06/30/11 13:30 | 1       |
| Chloroethane                  | <5.0              |                  | 5.0           | 0.33 | ug/L |                 |                 | 06/30/11 13:30 | 1       |
| <b>1,1-Dichloroethene</b>     | <b>12</b>         |                  | 5.0           | 0.29 | ug/L |                 |                 | 06/30/11 13:30 | 1       |
| Carbon disulfide              | <5.0              |                  | 5.0           | 0.44 | ug/L |                 |                 | 06/30/11 13:30 | 1       |
| Acetone                       | <20               |                  | 20            | 1.9  | ug/L |                 |                 | 06/30/11 13:30 | 1       |
| Methylene Chloride            | <10               |                  | 10            | 0.63 | ug/L |                 |                 | 06/30/11 13:30 | 1       |
| trans-1,2-Dichloroethene      | <5.0              |                  | 5.0           | 0.27 | ug/L |                 |                 | 06/30/11 13:30 | 1       |
| <b>1,1-Dichloroethane</b>     | <b>15</b>         |                  | 5.0           | 0.24 | ug/L |                 |                 | 06/30/11 13:30 | 1       |
| <b>cis-1,2-Dichloroethene</b> | <b>140</b>        |                  | 5.0           | 0.22 | ug/L |                 |                 | 06/30/11 13:30 | 1       |
| Methyl Ethyl Ketone           | <20               |                  | 20            | 1.0  | ug/L |                 |                 | 06/30/11 13:30 | 1       |
| Chloroform                    | <5.0              |                  | 5.0           | 0.25 | ug/L |                 |                 | 06/30/11 13:30 | 1       |
| 1,1,1-Trichloroethane         | <5.0              |                  | 5.0           | 0.26 | ug/L |                 |                 | 06/30/11 13:30 | 1       |
| Carbon tetrachloride          | <5.0              |                  | 5.0           | 0.28 | ug/L |                 |                 | 06/30/11 13:30 | 1       |
| 1,2-Dichloroethane            | <5.0              |                  | 5.0           | 0.28 | ug/L |                 |                 | 06/30/11 13:30 | 1       |
| <b>Trichloroethene</b>        | <b>9.1</b>        |                  | 5.0           | 0.18 | ug/L |                 |                 | 06/30/11 13:30 | 1       |
| 1,2-Dichloropropane           | <5.0              |                  | 5.0           | 0.36 | ug/L |                 |                 | 06/30/11 13:30 | 1       |
| Bromodichloromethane          | <5.0              |                  | 5.0           | 0.23 | ug/L |                 |                 | 06/30/11 13:30 | 1       |
| cis-1,3-Dichloropropene       | <5.0              |                  | 5.0           | 0.28 | ug/L |                 |                 | 06/30/11 13:30 | 1       |
| methyl isobutyl ketone        | <20               |                  | 20            | 0.79 | ug/L |                 |                 | 06/30/11 13:30 | 1       |
| Toluene                       | <5.0              |                  | 5.0           | 0.15 | ug/L |                 |                 | 06/30/11 13:30 | 1       |
| trans-1,3-Dichloropropene     | <5.0              |                  | 5.0           | 0.35 | ug/L |                 |                 | 06/30/11 13:30 | 1       |
| 1,1,2-Trichloroethane         | <5.0              |                  | 5.0           | 0.30 | ug/L |                 |                 | 06/30/11 13:30 | 1       |
| Tetrachloroethene             | <5.0              |                  | 5.0           | 0.22 | ug/L |                 |                 | 06/30/11 13:30 | 1       |
| 2-Hexanone                    | <20               |                  | 20            | 0.56 | ug/L |                 |                 | 06/30/11 13:30 | 1       |
| Dibromochloromethane          | <5.0              |                  | 5.0           | 0.25 | ug/L |                 |                 | 06/30/11 13:30 | 1       |
| Chlorobenzene                 | <5.0              |                  | 5.0           | 0.24 | ug/L |                 |                 | 06/30/11 13:30 | 1       |
| Ethylbenzene                  | <5.0              |                  | 5.0           | 0.14 | ug/L |                 |                 | 06/30/11 13:30 | 1       |
| Styrene                       | <5.0              |                  | 5.0           | 0.26 | ug/L |                 |                 | 06/30/11 13:30 | 1       |
| Bromoform                     | <5.0              |                  | 5.0           | 0.45 | ug/L |                 |                 | 06/30/11 13:30 | 1       |
| 1,1,2,2-Tetrachloroethane     | <5.0              |                  | 5.0           | 0.35 | ug/L |                 |                 | 06/30/11 13:30 | 1       |
| Xylenes, Total                | <5.0              |                  | 5.0           | 0.30 | ug/L |                 |                 | 06/30/11 13:30 | 1       |
| <b>Surrogate</b>              | <b>% Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |      |      | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |         |
| 1,2-Dichloroethane-d4 (Surr)  | 105               |                  | 77 - 124      |      |      |                 | 06/30/11 13:30  | 1              |         |
| Toluene-d8 (Surr)             | 97                |                  | 80 - 121      |      |      |                 | 06/30/11 13:30  | 1              |         |
| 4-Bromofluorobenzene (Surr)   | 92                |                  | 77 - 112      |      |      |                 | 06/30/11 13:30  | 1              |         |
| Dibromofluoromethane          | 96                |                  | 78 - 119      |      |      |                 | 06/30/11 13:30  | 1              |         |

# Client Sample Results

Client: Environmental Information Logistics (EIL)  
 Project/Site: Interstate Pollution Control Site

TestAmerica Job ID: 500-35654-1

**Client Sample ID: IPCGWMW2**

Date Collected: 06/20/11 13:34

Date Received: 06/21/11 10:15

**Lab Sample ID: 500-35654-2**

Matrix: Water

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

| Analyte                       | Result            | Qualifier        | RL            | MDL  | Unit | D               | Prepared        | Analyzed       | Dil Fac |
|-------------------------------|-------------------|------------------|---------------|------|------|-----------------|-----------------|----------------|---------|
| Benzene                       | <5.0              |                  | 5.0           | 0.12 | ug/L |                 |                 | 06/30/11 14:21 | 1       |
| Chloromethane                 | <5.0              |                  | 5.0           | 0.24 | ug/L |                 |                 | 06/30/11 14:21 | 1       |
| Vinyl chloride                | <2.0              |                  | 2.0           | 0.13 | ug/L |                 |                 | 06/30/11 14:21 | 1       |
| Bromomethane                  | <5.0              |                  | 5.0           | 0.49 | ug/L |                 |                 | 06/30/11 14:21 | 1       |
| Chloroethane                  | <5.0              |                  | 5.0           | 0.33 | ug/L |                 |                 | 06/30/11 14:21 | 1       |
| <b>1,1-Dichloroethene</b>     | <b>22</b>         |                  | 5.0           | 0.29 | ug/L |                 |                 | 06/30/11 14:21 | 1       |
| Carbon disulfide              | <5.0              |                  | 5.0           | 0.44 | ug/L |                 |                 | 06/30/11 14:21 | 1       |
| Acetone                       | <20               |                  | 20            | 1.9  | ug/L |                 |                 | 06/30/11 14:21 | 1       |
| Methylene Chloride            | <10               |                  | 10            | 0.63 | ug/L |                 |                 | 06/30/11 14:21 | 1       |
| trans-1,2-Dichloroethene      | <5.0              |                  | 5.0           | 0.27 | ug/L |                 |                 | 06/30/11 14:21 | 1       |
| 1,1-Dichloroethane            | <5.0              |                  | 5.0           | 0.24 | ug/L |                 |                 | 06/30/11 14:21 | 1       |
| <b>cis-1,2-Dichloroethene</b> | <b>59</b>         |                  | 5.0           | 0.22 | ug/L |                 |                 | 06/30/11 14:21 | 1       |
| Methyl Ethyl Ketone           | <20               |                  | 20            | 1.0  | ug/L |                 |                 | 06/30/11 14:21 | 1       |
| Chloroform                    | <5.0              |                  | 5.0           | 0.25 | ug/L |                 |                 | 06/30/11 14:21 | 1       |
| <b>1,1,1-Trichloroethane</b>  | <b>21</b>         |                  | 5.0           | 0.26 | ug/L |                 |                 | 06/30/11 14:21 | 1       |
| Carbon tetrachloride          | <5.0              |                  | 5.0           | 0.28 | ug/L |                 |                 | 06/30/11 14:21 | 1       |
| 1,2-Dichloroethane            | <5.0              |                  | 5.0           | 0.28 | ug/L |                 |                 | 06/30/11 14:21 | 1       |
| <b>Trichloroethene</b>        | <b>150</b>        |                  | 5.0           | 0.18 | ug/L |                 |                 | 06/30/11 14:21 | 1       |
| 1,2-Dichloropropane           | <5.0              |                  | 5.0           | 0.36 | ug/L |                 |                 | 06/30/11 14:21 | 1       |
| Bromodichloromethane          | <5.0              |                  | 5.0           | 0.23 | ug/L |                 |                 | 06/30/11 14:21 | 1       |
| cis-1,3-Dichloropropene       | <5.0              |                  | 5.0           | 0.28 | ug/L |                 |                 | 06/30/11 14:21 | 1       |
| methyl isobutyl ketone        | <20               |                  | 20            | 0.79 | ug/L |                 |                 | 06/30/11 14:21 | 1       |
| Toluene                       | <5.0              |                  | 5.0           | 0.15 | ug/L |                 |                 | 06/30/11 14:21 | 1       |
| trans-1,3-Dichloropropene     | <5.0              |                  | 5.0           | 0.35 | ug/L |                 |                 | 06/30/11 14:21 | 1       |
| 1,1,2-Trichloroethane         | <5.0              |                  | 5.0           | 0.30 | ug/L |                 |                 | 06/30/11 14:21 | 1       |
| <b>Tetrachloroethene</b>      | <b>31</b>         |                  | 5.0           | 0.22 | ug/L |                 |                 | 06/30/11 14:21 | 1       |
| 2-Hexanone                    | <20               |                  | 20            | 0.56 | ug/L |                 |                 | 06/30/11 14:21 | 1       |
| Dibromochloromethane          | <5.0              |                  | 5.0           | 0.25 | ug/L |                 |                 | 06/30/11 14:21 | 1       |
| Chlorobenzene                 | <5.0              |                  | 5.0           | 0.24 | ug/L |                 |                 | 06/30/11 14:21 | 1       |
| Ethylbenzene                  | <5.0              |                  | 5.0           | 0.14 | ug/L |                 |                 | 06/30/11 14:21 | 1       |
| Styrene                       | <5.0              |                  | 5.0           | 0.26 | ug/L |                 |                 | 06/30/11 14:21 | 1       |
| Bromoform                     | <5.0              |                  | 5.0           | 0.45 | ug/L |                 |                 | 06/30/11 14:21 | 1       |
| 1,1,2,2-Tetrachloroethane     | <5.0              |                  | 5.0           | 0.35 | ug/L |                 |                 | 06/30/11 14:21 | 1       |
| Xylenes, Total                | <5.0              |                  | 5.0           | 0.30 | ug/L |                 |                 | 06/30/11 14:21 | 1       |
| <b>Surrogate</b>              | <b>% Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |      |      | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |         |
| 1,2-Dichloroethane-d4 (Surr)  | 121               |                  | 77 - 124      |      |      |                 | 06/30/11 14:21  | 1              |         |
| Toluene-d8 (Surr)             | 105               |                  | 80 - 121      |      |      |                 | 06/30/11 14:21  | 1              |         |
| 4-Bromofluorobenzene (Surr)   | 102               |                  | 77 - 112      |      |      |                 | 06/30/11 14:21  | 1              |         |
| Dibromofluoromethane          | 107               |                  | 78 - 119      |      |      |                 | 06/30/11 14:21  | 1              |         |

# Client Sample Results

Client: Environmental Information Logistics (EIL)  
 Project/Site: Interstate Pollution Control Site

TestAmerica Job ID: 500-35654-1

**Client Sample ID: IPCGWMW3**

**Lab Sample ID: 500-35654-3**

Matrix: Water

Date Collected: 06/20/11 13:10  
 Date Received: 06/21/11 10:15

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

| Analyte                       | Result            | Qualifier        | RL            | MDL  | Unit | D               | Prepared        | Analyzed       | Dil Fac |
|-------------------------------|-------------------|------------------|---------------|------|------|-----------------|-----------------|----------------|---------|
| Benzene                       | <5.0              |                  | 5.0           | 0.12 | ug/L |                 |                 | 07/01/11 15:11 | 1       |
| Chloromethane                 | <5.0              |                  | 5.0           | 0.24 | ug/L |                 |                 | 07/01/11 15:11 | 1       |
| Vinyl chloride                | <2.0              |                  | 2.0           | 0.13 | ug/L |                 |                 | 07/01/11 15:11 | 1       |
| Bromomethane                  | <5.0              |                  | 5.0           | 0.49 | ug/L |                 |                 | 07/01/11 15:11 | 1       |
| Chloroethane                  | <5.0              |                  | 5.0           | 0.33 | ug/L |                 |                 | 07/01/11 15:11 | 1       |
| <b>1,1-Dichloroethene</b>     | <b>22</b>         |                  | 5.0           | 0.29 | ug/L |                 |                 | 07/01/11 15:11 | 1       |
| Carbon disulfide              | <5.0              |                  | 5.0           | 0.44 | ug/L |                 |                 | 07/01/11 15:11 | 1       |
| Acetone                       | <20               |                  | 20            | 1.9  | ug/L |                 |                 | 07/01/11 15:11 | 1       |
| Methylene Chloride            | <10               |                  | 10            | 0.63 | ug/L |                 |                 | 07/01/11 15:11 | 1       |
| trans-1,2-Dichloroethene      | <5.0              |                  | 5.0           | 0.27 | ug/L |                 |                 | 07/01/11 15:11 | 1       |
| <b>1,1-Dichloroethane</b>     | <b>5.7</b>        |                  | 5.0           | 0.24 | ug/L |                 |                 | 07/01/11 15:11 | 1       |
| <b>cis-1,2-Dichloroethene</b> | <b>65</b>         |                  | 5.0           | 0.22 | ug/L |                 |                 | 07/01/11 15:11 | 1       |
| Methyl Ethyl Ketone           | <20               |                  | 20            | 1.0  | ug/L |                 |                 | 07/01/11 15:11 | 1       |
| Chloroform                    | <5.0              |                  | 5.0           | 0.25 | ug/L |                 |                 | 07/01/11 15:11 | 1       |
| <b>1,1,1-Trichloroethane</b>  | <b>24</b>         |                  | 5.0           | 0.26 | ug/L |                 |                 | 07/01/11 15:11 | 1       |
| Carbon tetrachloride          | <5.0              |                  | 5.0           | 0.28 | ug/L |                 |                 | 07/01/11 15:11 | 1       |
| 1,2-Dichloroethane            | <5.0              |                  | 5.0           | 0.28 | ug/L |                 |                 | 07/01/11 15:11 | 1       |
| <b>Trichloroethene</b>        | <b>180</b>        |                  | 5.0           | 0.18 | ug/L |                 |                 | 07/01/11 15:11 | 1       |
| 1,2-Dichloropropane           | <5.0              |                  | 5.0           | 0.36 | ug/L |                 |                 | 07/01/11 15:11 | 1       |
| Bromodichloromethane          | <5.0              |                  | 5.0           | 0.23 | ug/L |                 |                 | 07/01/11 15:11 | 1       |
| cis-1,3-Dichloropropene       | <5.0              |                  | 5.0           | 0.28 | ug/L |                 |                 | 07/01/11 15:11 | 1       |
| methyl isobutyl ketone        | <20               |                  | 20            | 0.79 | ug/L |                 |                 | 07/01/11 15:11 | 1       |
| Toluene                       | <5.0              |                  | 5.0           | 0.15 | ug/L |                 |                 | 07/01/11 15:11 | 1       |
| trans-1,3-Dichloropropene     | <5.0              |                  | 5.0           | 0.35 | ug/L |                 |                 | 07/01/11 15:11 | 1       |
| 1,1,2-Trichloroethane         | <5.0              |                  | 5.0           | 0.30 | ug/L |                 |                 | 07/01/11 15:11 | 1       |
| <b>Tetrachloroethene</b>      | <b>43</b>         |                  | 5.0           | 0.22 | ug/L |                 |                 | 07/01/11 15:11 | 1       |
| 2-Hexanone                    | <20               |                  | 20            | 0.56 | ug/L |                 |                 | 07/01/11 15:11 | 1       |
| Dibromochloromethane          | <5.0              |                  | 5.0           | 0.25 | ug/L |                 |                 | 07/01/11 15:11 | 1       |
| Chlorobenzene                 | <5.0              |                  | 5.0           | 0.24 | ug/L |                 |                 | 07/01/11 15:11 | 1       |
| Ethylbenzene                  | <5.0              |                  | 5.0           | 0.14 | ug/L |                 |                 | 07/01/11 15:11 | 1       |
| Styrene                       | <5.0              |                  | 5.0           | 0.26 | ug/L |                 |                 | 07/01/11 15:11 | 1       |
| Bromoform                     | <5.0              |                  | 5.0           | 0.45 | ug/L |                 |                 | 07/01/11 15:11 | 1       |
| 1,1,2,2-Tetrachloroethane     | <5.0              |                  | 5.0           | 0.35 | ug/L |                 |                 | 07/01/11 15:11 | 1       |
| Xylenes, Total                | <5.0              |                  | 5.0           | 0.30 | ug/L |                 |                 | 07/01/11 15:11 | 1       |
| <b>Surrogate</b>              | <b>% Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |      |      | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |         |
| 1,2-Dichloroethane-d4 (Surr)  | 110               |                  | 77 - 124      |      |      |                 | 07/01/11 15:11  | 1              |         |
| Toluene-d8 (Surr)             | 102               |                  | 80 - 121      |      |      |                 | 07/01/11 15:11  | 1              |         |
| 4-Bromofluorobenzene (Surr)   | 94                |                  | 77 - 112      |      |      |                 | 07/01/11 15:11  | 1              |         |
| Dibromofluoromethane          | 103               |                  | 78 - 119      |      |      |                 | 07/01/11 15:11  | 1              |         |

# Client Sample Results

Client: Environmental Information Logistics (EIL)  
 Project/Site: Interstate Pollution Control Site

TestAmerica Job ID: 500-35654-1

**Client Sample ID: IPCGWMW4**

**Lab Sample ID: 500-35654-4**

Matrix: Water

Date Collected: 06/20/11 12:50  
 Date Received: 06/21/11 10:15

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

| Analyte                       | Result            | Qualifier        | RL            | MDL  | Unit | D               | Prepared        | Analyzed       | Dil Fac |
|-------------------------------|-------------------|------------------|---------------|------|------|-----------------|-----------------|----------------|---------|
| Benzene                       | <5.0              |                  | 5.0           | 0.12 | ug/L |                 |                 | 06/30/11 16:04 | 1       |
| Chloromethane                 | <5.0              |                  | 5.0           | 0.24 | ug/L |                 |                 | 06/30/11 16:04 | 1       |
| <b>Vinyl chloride</b>         | <b>60</b>         |                  | 2.0           | 0.13 | ug/L |                 |                 | 06/30/11 16:04 | 1       |
| Bromomethane                  | <5.0              |                  | 5.0           | 0.49 | ug/L |                 |                 | 06/30/11 16:04 | 1       |
| Chloroethane                  | <5.0              |                  | 5.0           | 0.33 | ug/L |                 |                 | 06/30/11 16:04 | 1       |
| <b>1,1-Dichloroethene</b>     | <b>5.9</b>        |                  | 5.0           | 0.29 | ug/L |                 |                 | 06/30/11 16:04 | 1       |
| Carbon disulfide              | <5.0              |                  | 5.0           | 0.44 | ug/L |                 |                 | 06/30/11 16:04 | 1       |
| Acetone                       | <20               |                  | 20            | 1.9  | ug/L |                 |                 | 06/30/11 16:04 | 1       |
| Methylene Chloride            | <10               |                  | 10            | 0.63 | ug/L |                 |                 | 06/30/11 16:04 | 1       |
| trans-1,2-Dichloroethene      | <5.0              |                  | 5.0           | 0.27 | ug/L |                 |                 | 06/30/11 16:04 | 1       |
| <b>1,1-Dichloroethane</b>     | <b>24</b>         |                  | 5.0           | 0.24 | ug/L |                 |                 | 06/30/11 16:04 | 1       |
| <b>cis-1,2-Dichloroethene</b> | <b>88</b>         |                  | 5.0           | 0.22 | ug/L |                 |                 | 06/30/11 16:04 | 1       |
| Methyl Ethyl Ketone           | <20               |                  | 20            | 1.0  | ug/L |                 |                 | 06/30/11 16:04 | 1       |
| Chloroform                    | <5.0              |                  | 5.0           | 0.25 | ug/L |                 |                 | 06/30/11 16:04 | 1       |
| <b>1,1,1-Trichloroethane</b>  | <b>13</b>         |                  | 5.0           | 0.26 | ug/L |                 |                 | 06/30/11 16:04 | 1       |
| Carbon tetrachloride          | <5.0              |                  | 5.0           | 0.28 | ug/L |                 |                 | 06/30/11 16:04 | 1       |
| 1,2-Dichloroethane            | <5.0              |                  | 5.0           | 0.28 | ug/L |                 |                 | 06/30/11 16:04 | 1       |
| Trichloroethene               | <5.0              |                  | 5.0           | 0.18 | ug/L |                 |                 | 06/30/11 16:04 | 1       |
| 1,2-Dichloropropane           | <5.0              |                  | 5.0           | 0.36 | ug/L |                 |                 | 06/30/11 16:04 | 1       |
| Bromodichloromethane          | <5.0              |                  | 5.0           | 0.23 | ug/L |                 |                 | 06/30/11 16:04 | 1       |
| cis-1,3-Dichloropropene       | <5.0              |                  | 5.0           | 0.28 | ug/L |                 |                 | 06/30/11 16:04 | 1       |
| methyl isobutyl ketone        | <20               |                  | 20            | 0.79 | ug/L |                 |                 | 06/30/11 16:04 | 1       |
| Toluene                       | <5.0              |                  | 5.0           | 0.15 | ug/L |                 |                 | 06/30/11 16:04 | 1       |
| trans-1,3-Dichloropropene     | <5.0              |                  | 5.0           | 0.35 | ug/L |                 |                 | 06/30/11 16:04 | 1       |
| 1,1,2-Trichloroethane         | <5.0              |                  | 5.0           | 0.30 | ug/L |                 |                 | 06/30/11 16:04 | 1       |
| Tetrachloroethene             | <5.0              |                  | 5.0           | 0.22 | ug/L |                 |                 | 06/30/11 16:04 | 1       |
| 2-Hexanone                    | <20               |                  | 20            | 0.56 | ug/L |                 |                 | 06/30/11 16:04 | 1       |
| Dibromochloromethane          | <5.0              |                  | 5.0           | 0.25 | ug/L |                 |                 | 06/30/11 16:04 | 1       |
| Chlorobenzene                 | <5.0              |                  | 5.0           | 0.24 | ug/L |                 |                 | 06/30/11 16:04 | 1       |
| Ethylbenzene                  | <5.0              |                  | 5.0           | 0.14 | ug/L |                 |                 | 06/30/11 16:04 | 1       |
| Styrene                       | <5.0              |                  | 5.0           | 0.26 | ug/L |                 |                 | 06/30/11 16:04 | 1       |
| Bromoform                     | <5.0              |                  | 5.0           | 0.45 | ug/L |                 |                 | 06/30/11 16:04 | 1       |
| 1,1,2,2-Tetrachloroethane     | <5.0              |                  | 5.0           | 0.35 | ug/L |                 |                 | 06/30/11 16:04 | 1       |
| Xylenes, Total                | <5.0              |                  | 5.0           | 0.30 | ug/L |                 |                 | 06/30/11 16:04 | 1       |
| <b>Surrogate</b>              | <b>% Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |      |      | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |         |
| 1,2-Dichloroethane-d4 (Surr)  | 123               |                  | 77 - 124      |      |      |                 | 06/30/11 16:04  | 1              |         |
| Toluene-d8 (Surr)             | 112               |                  | 80 - 121      |      |      |                 | 06/30/11 16:04  | 1              |         |
| 4-Bromofluorobenzene (Surr)   | 103               |                  | 77 - 112      |      |      |                 | 06/30/11 16:04  | 1              |         |
| Dibromofluoromethane          | 115               |                  | 78 - 119      |      |      |                 | 06/30/11 16:04  | 1              |         |

# Client Sample Results

Client: Environmental Information Logistics (EIL)  
 Project/Site: Interstate Pollution Control Site

TestAmerica Job ID: 500-35654-1

**Client Sample ID: IPCGWMW5**

**Lab Sample ID: 500-35654-5**

Matrix: Water

Date Collected: 06/20/11 12:25  
 Date Received: 06/21/11 10:15

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

| Analyte                       | Result            | Qualifier        | RL            | MDL  | Unit | D               | Prepared        | Analyzed       | Dil Fac |
|-------------------------------|-------------------|------------------|---------------|------|------|-----------------|-----------------|----------------|---------|
| Benzene                       | <5.0              |                  | 5.0           | 0.12 | ug/L |                 |                 | 06/30/11 16:56 | 1       |
| Chloromethane                 | <5.0              |                  | 5.0           | 0.24 | ug/L |                 |                 | 06/30/11 16:56 | 1       |
| <b>Vinyl chloride</b>         | <b>6.3</b>        |                  | 2.0           | 0.13 | ug/L |                 |                 | 06/30/11 16:56 | 1       |
| Bromomethane                  | <5.0              |                  | 5.0           | 0.49 | ug/L |                 |                 | 06/30/11 16:56 | 1       |
| Chloroethane                  | <5.0              |                  | 5.0           | 0.33 | ug/L |                 |                 | 06/30/11 16:56 | 1       |
| <b>1,1-Dichloroethene</b>     | <b>24</b>         |                  | 5.0           | 0.29 | ug/L |                 |                 | 06/30/11 16:56 | 1       |
| Carbon disulfide              | <5.0              |                  | 5.0           | 0.44 | ug/L |                 |                 | 06/30/11 16:56 | 1       |
| Acetone                       | <20               |                  | 20            | 1.9  | ug/L |                 |                 | 06/30/11 16:56 | 1       |
| Methylene Chloride            | <10               |                  | 10            | 0.63 | ug/L |                 |                 | 06/30/11 16:56 | 1       |
| trans-1,2-Dichloroethene      | <5.0              |                  | 5.0           | 0.27 | ug/L |                 |                 | 06/30/11 16:56 | 1       |
| <b>1,1-Dichloroethane</b>     | <b>6.6</b>        |                  | 5.0           | 0.24 | ug/L |                 |                 | 06/30/11 16:56 | 1       |
| <b>cis-1,2-Dichloroethene</b> | <b>130</b>        |                  | 5.0           | 0.22 | ug/L |                 |                 | 06/30/11 16:56 | 1       |
| Methyl Ethyl Ketone           | <20               |                  | 20            | 1.0  | ug/L |                 |                 | 06/30/11 16:56 | 1       |
| Chloroform                    | <5.0              |                  | 5.0           | 0.25 | ug/L |                 |                 | 06/30/11 16:56 | 1       |
| <b>1,1,1-Trichloroethane</b>  | <b>28</b>         |                  | 5.0           | 0.26 | ug/L |                 |                 | 06/30/11 16:56 | 1       |
| Carbon tetrachloride          | <5.0              |                  | 5.0           | 0.28 | ug/L |                 |                 | 06/30/11 16:56 | 1       |
| 1,2-Dichloroethane            | <5.0              |                  | 5.0           | 0.28 | ug/L |                 |                 | 06/30/11 16:56 | 1       |
| <b>Trichloroethene</b>        | <b>160</b>        |                  | 5.0           | 0.18 | ug/L |                 |                 | 06/30/11 16:56 | 1       |
| 1,2-Dichloropropane           | <5.0              |                  | 5.0           | 0.36 | ug/L |                 |                 | 06/30/11 16:56 | 1       |
| Bromodichloromethane          | <5.0              |                  | 5.0           | 0.23 | ug/L |                 |                 | 06/30/11 16:56 | 1       |
| cis-1,3-Dichloropropene       | <5.0              |                  | 5.0           | 0.28 | ug/L |                 |                 | 06/30/11 16:56 | 1       |
| methyl isobutyl ketone        | <20               |                  | 20            | 0.79 | ug/L |                 |                 | 06/30/11 16:56 | 1       |
| Toluene                       | <5.0              |                  | 5.0           | 0.15 | ug/L |                 |                 | 06/30/11 16:56 | 1       |
| trans-1,3-Dichloropropene     | <5.0              |                  | 5.0           | 0.35 | ug/L |                 |                 | 06/30/11 16:56 | 1       |
| 1,1,2-Trichloroethane         | <5.0              |                  | 5.0           | 0.30 | ug/L |                 |                 | 06/30/11 16:56 | 1       |
| <b>Tetrachloroethene</b>      | <b>38</b>         |                  | 5.0           | 0.22 | ug/L |                 |                 | 06/30/11 16:56 | 1       |
| 2-Hexanone                    | <20               |                  | 20            | 0.56 | ug/L |                 |                 | 06/30/11 16:56 | 1       |
| Dibromochloromethane          | <5.0              |                  | 5.0           | 0.25 | ug/L |                 |                 | 06/30/11 16:56 | 1       |
| Chlorobenzene                 | <5.0              |                  | 5.0           | 0.24 | ug/L |                 |                 | 06/30/11 16:56 | 1       |
| Ethylbenzene                  | <5.0              |                  | 5.0           | 0.14 | ug/L |                 |                 | 06/30/11 16:56 | 1       |
| Styrene                       | <5.0              |                  | 5.0           | 0.26 | ug/L |                 |                 | 06/30/11 16:56 | 1       |
| Bromoform                     | <5.0              |                  | 5.0           | 0.45 | ug/L |                 |                 | 06/30/11 16:56 | 1       |
| 1,1,2,2-Tetrachloroethane     | <5.0              |                  | 5.0           | 0.35 | ug/L |                 |                 | 06/30/11 16:56 | 1       |
| Xylenes, Total                | <5.0              |                  | 5.0           | 0.30 | ug/L |                 |                 | 06/30/11 16:56 | 1       |
| <b>Surrogate</b>              | <b>% Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |      |      | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |         |
| 1,2-Dichloroethane-d4 (Surr)  | 120               |                  | 77 - 124      |      |      |                 | 06/30/11 16:56  | 1              |         |
| Toluene-d8 (Surr)             | 108               |                  | 80 - 121      |      |      |                 | 06/30/11 16:56  | 1              |         |
| 4-Bromofluorobenzene (Surr)   | 100               |                  | 77 - 112      |      |      |                 | 06/30/11 16:56  | 1              |         |
| Dibromofluoromethane          | 114               |                  | 78 - 119      |      |      |                 | 06/30/11 16:56  | 1              |         |

# Client Sample Results

Client: Environmental Information Logistics (EIL)  
 Project/Site: Interstate Pollution Control Site

TestAmerica Job ID: 500-35654-1

**Client Sample ID: IPCGWMW6**

**Lab Sample ID: 500-35654-6**

Matrix: Water

Date Collected: 06/20/11 11:58  
 Date Received: 06/21/11 10:15

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

| Analyte                       | Result            | Qualifier        | RL            | MDL  | Unit | D               | Prepared        | Analyzed       | Dil Fac |
|-------------------------------|-------------------|------------------|---------------|------|------|-----------------|-----------------|----------------|---------|
| Benzene                       | <5.0              |                  | 5.0           | 0.12 | ug/L |                 |                 | 06/30/11 17:49 | 1       |
| Chloromethane                 | <5.0              |                  | 5.0           | 0.24 | ug/L |                 |                 | 06/30/11 17:49 | 1       |
| <b>Vinyl chloride</b>         | <b>10</b>         |                  | 2.0           | 0.13 | ug/L |                 |                 | 06/30/11 17:49 | 1       |
| Bromomethane                  | <5.0              |                  | 5.0           | 0.49 | ug/L |                 |                 | 06/30/11 17:49 | 1       |
| Chloroethane                  | <5.0              |                  | 5.0           | 0.33 | ug/L |                 |                 | 06/30/11 17:49 | 1       |
| <b>1,1-Dichloroethene</b>     | <b>19</b>         |                  | 5.0           | 0.29 | ug/L |                 |                 | 06/30/11 17:49 | 1       |
| Carbon disulfide              | <5.0              |                  | 5.0           | 0.44 | ug/L |                 |                 | 06/30/11 17:49 | 1       |
| Acetone                       | <20               |                  | 20            | 1.9  | ug/L |                 |                 | 06/30/11 17:49 | 1       |
| Methylene Chloride            | <10               |                  | 10            | 0.63 | ug/L |                 |                 | 06/30/11 17:49 | 1       |
| trans-1,2-Dichloroethene      | <5.0              |                  | 5.0           | 0.27 | ug/L |                 |                 | 06/30/11 17:49 | 1       |
| <b>1,1-Dichloroethane</b>     | <b>11</b>         |                  | 5.0           | 0.24 | ug/L |                 |                 | 06/30/11 17:49 | 1       |
| <b>cis-1,2-Dichloroethene</b> | <b>91</b>         |                  | 5.0           | 0.22 | ug/L |                 |                 | 06/30/11 17:49 | 1       |
| Methyl Ethyl Ketone           | <20               |                  | 20            | 1.0  | ug/L |                 |                 | 06/30/11 17:49 | 1       |
| Chloroform                    | <5.0              |                  | 5.0           | 0.25 | ug/L |                 |                 | 06/30/11 17:49 | 1       |
| <b>1,1,1-Trichloroethane</b>  | <b>26</b>         |                  | 5.0           | 0.26 | ug/L |                 |                 | 06/30/11 17:49 | 1       |
| Carbon tetrachloride          | <5.0              |                  | 5.0           | 0.28 | ug/L |                 |                 | 06/30/11 17:49 | 1       |
| 1,2-Dichloroethane            | <5.0              |                  | 5.0           | 0.28 | ug/L |                 |                 | 06/30/11 17:49 | 1       |
| <b>Trichloroethene</b>        | <b>130</b>        |                  | 5.0           | 0.18 | ug/L |                 |                 | 06/30/11 17:49 | 1       |
| 1,2-Dichloropropane           | <5.0              |                  | 5.0           | 0.36 | ug/L |                 |                 | 06/30/11 17:49 | 1       |
| Bromodichloromethane          | <5.0              |                  | 5.0           | 0.23 | ug/L |                 |                 | 06/30/11 17:49 | 1       |
| cis-1,3-Dichloropropene       | <5.0              |                  | 5.0           | 0.28 | ug/L |                 |                 | 06/30/11 17:49 | 1       |
| methyl isobutyl ketone        | <20               |                  | 20            | 0.79 | ug/L |                 |                 | 06/30/11 17:49 | 1       |
| Toluene                       | <5.0              |                  | 5.0           | 0.15 | ug/L |                 |                 | 06/30/11 17:49 | 1       |
| trans-1,3-Dichloropropene     | <5.0              |                  | 5.0           | 0.35 | ug/L |                 |                 | 06/30/11 17:49 | 1       |
| 1,1,2-Trichloroethane         | <5.0              |                  | 5.0           | 0.30 | ug/L |                 |                 | 06/30/11 17:49 | 1       |
| <b>Tetrachloroethene</b>      | <b>32</b>         |                  | 5.0           | 0.22 | ug/L |                 |                 | 06/30/11 17:49 | 1       |
| 2-Hexanone                    | <20               |                  | 20            | 0.56 | ug/L |                 |                 | 06/30/11 17:49 | 1       |
| Dibromochloromethane          | <5.0              |                  | 5.0           | 0.25 | ug/L |                 |                 | 06/30/11 17:49 | 1       |
| Chlorobenzene                 | <5.0              |                  | 5.0           | 0.24 | ug/L |                 |                 | 06/30/11 17:49 | 1       |
| Ethylbenzene                  | <5.0              |                  | 5.0           | 0.14 | ug/L |                 |                 | 06/30/11 17:49 | 1       |
| Styrene                       | <5.0              |                  | 5.0           | 0.26 | ug/L |                 |                 | 06/30/11 17:49 | 1       |
| Bromoform                     | <5.0              |                  | 5.0           | 0.45 | ug/L |                 |                 | 06/30/11 17:49 | 1       |
| 1,1,2,2-Tetrachloroethane     | <5.0              |                  | 5.0           | 0.35 | ug/L |                 |                 | 06/30/11 17:49 | 1       |
| Xylenes, Total                | <5.0              |                  | 5.0           | 0.30 | ug/L |                 |                 | 06/30/11 17:49 | 1       |
| <b>Surrogate</b>              | <b>% Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |      |      | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |         |
| 1,2-Dichloroethane-d4 (Surr)  | 115               |                  | 77 - 124      |      |      |                 | 06/30/11 17:49  | 1              |         |
| Toluene-d8 (Surr)             | 103               |                  | 80 - 121      |      |      |                 | 06/30/11 17:49  | 1              |         |
| 4-Bromofluorobenzene (Surr)   | 96                |                  | 77 - 112      |      |      |                 | 06/30/11 17:49  | 1              |         |
| Dibromofluoromethane          | 106               |                  | 78 - 119      |      |      |                 | 06/30/11 17:49  | 1              |         |

# Client Sample Results

Client: Environmental Information Logistics (EIL)  
 Project/Site: Interstate Pollution Control Site

TestAmerica Job ID: 500-35654-1

**Client Sample ID: IPCGWMW7**

**Lab Sample ID: 500-35654-7**

Date Collected: 06/20/11 10:10  
 Date Received: 06/21/11 10:15

Matrix: Water

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

| Analyte                       | Result            | Qualifier        | RL            | MDL  | Unit | D               | Prepared        | Analyzed       | Dil Fac |
|-------------------------------|-------------------|------------------|---------------|------|------|-----------------|-----------------|----------------|---------|
| Benzene                       | <5.0              |                  | 5.0           | 0.12 | ug/L |                 |                 | 06/30/11 19:33 | 1       |
| Chloromethane                 | <5.0              |                  | 5.0           | 0.24 | ug/L |                 |                 | 06/30/11 19:33 | 1       |
| <b>Vinyl chloride</b>         | <b>20</b>         |                  | 2.0           | 0.13 | ug/L |                 |                 | 06/30/11 19:33 | 1       |
| Bromomethane                  | <5.0              |                  | 5.0           | 0.49 | ug/L |                 |                 | 06/30/11 19:33 | 1       |
| Chloroethane                  | <5.0              |                  | 5.0           | 0.33 | ug/L |                 |                 | 06/30/11 19:33 | 1       |
| <b>1,1-Dichloroethene</b>     | <b>13</b>         |                  | 5.0           | 0.29 | ug/L |                 |                 | 06/30/11 19:33 | 1       |
| Carbon disulfide              | <5.0              |                  | 5.0           | 0.44 | ug/L |                 |                 | 06/30/11 19:33 | 1       |
| Acetone                       | <20               |                  | 20            | 1.9  | ug/L |                 |                 | 06/30/11 19:33 | 1       |
| Methylene Chloride            | <10               |                  | 10            | 0.63 | ug/L |                 |                 | 06/30/11 19:33 | 1       |
| trans-1,2-Dichloroethene      | <5.0              |                  | 5.0           | 0.27 | ug/L |                 |                 | 06/30/11 19:33 | 1       |
| <b>1,1-Dichloroethane</b>     | <b>16</b>         |                  | 5.0           | 0.24 | ug/L |                 |                 | 06/30/11 19:33 | 1       |
| <b>cis-1,2-Dichloroethene</b> | <b>160</b>        |                  | 5.0           | 0.22 | ug/L |                 |                 | 06/30/11 19:33 | 1       |
| Methyl Ethyl Ketone           | <20               |                  | 20            | 1.0  | ug/L |                 |                 | 06/30/11 19:33 | 1       |
| Chloroform                    | <5.0              |                  | 5.0           | 0.25 | ug/L |                 |                 | 06/30/11 19:33 | 1       |
| 1,1,1-Trichloroethane         | <5.0              |                  | 5.0           | 0.26 | ug/L |                 |                 | 06/30/11 19:33 | 1       |
| Carbon tetrachloride          | <5.0              |                  | 5.0           | 0.28 | ug/L |                 |                 | 06/30/11 19:33 | 1       |
| 1,2-Dichloroethane            | <5.0              |                  | 5.0           | 0.28 | ug/L |                 |                 | 06/30/11 19:33 | 1       |
| <b>Trichloroethene</b>        | <b>10</b>         |                  | 5.0           | 0.18 | ug/L |                 |                 | 06/30/11 19:33 | 1       |
| 1,2-Dichloropropane           | <5.0              |                  | 5.0           | 0.36 | ug/L |                 |                 | 06/30/11 19:33 | 1       |
| Bromodichloromethane          | <5.0              |                  | 5.0           | 0.23 | ug/L |                 |                 | 06/30/11 19:33 | 1       |
| cis-1,3-Dichloropropene       | <5.0              |                  | 5.0           | 0.28 | ug/L |                 |                 | 06/30/11 19:33 | 1       |
| methyl isobutyl ketone        | <20               |                  | 20            | 0.79 | ug/L |                 |                 | 06/30/11 19:33 | 1       |
| Toluene                       | <5.0              |                  | 5.0           | 0.15 | ug/L |                 |                 | 06/30/11 19:33 | 1       |
| trans-1,3-Dichloropropene     | <5.0              |                  | 5.0           | 0.35 | ug/L |                 |                 | 06/30/11 19:33 | 1       |
| 1,1,2-Trichloroethane         | <5.0              |                  | 5.0           | 0.30 | ug/L |                 |                 | 06/30/11 19:33 | 1       |
| Tetrachloroethene             | <5.0              |                  | 5.0           | 0.22 | ug/L |                 |                 | 06/30/11 19:33 | 1       |
| 2-Hexanone                    | <20               |                  | 20            | 0.56 | ug/L |                 |                 | 06/30/11 19:33 | 1       |
| Dibromochloromethane          | <5.0              |                  | 5.0           | 0.25 | ug/L |                 |                 | 06/30/11 19:33 | 1       |
| Chlorobenzene                 | <5.0              |                  | 5.0           | 0.24 | ug/L |                 |                 | 06/30/11 19:33 | 1       |
| Ethylbenzene                  | <5.0              |                  | 5.0           | 0.14 | ug/L |                 |                 | 06/30/11 19:33 | 1       |
| Styrene                       | <5.0              |                  | 5.0           | 0.26 | ug/L |                 |                 | 06/30/11 19:33 | 1       |
| Bromoform                     | <5.0              |                  | 5.0           | 0.45 | ug/L |                 |                 | 06/30/11 19:33 | 1       |
| 1,1,2,2-Tetrachloroethane     | <5.0              |                  | 5.0           | 0.35 | ug/L |                 |                 | 06/30/11 19:33 | 1       |
| Xylenes, Total                | <5.0              |                  | 5.0           | 0.30 | ug/L |                 |                 | 06/30/11 19:33 | 1       |
| <b>Surrogate</b>              | <b>% Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |      |      | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |         |
| 1,2-Dichloroethane-d4 (Surr)  | 113               |                  | 77 - 124      |      |      |                 | 06/30/11 19:33  | 1              |         |
| Toluene-d8 (Surr)             | 100               |                  | 80 - 121      |      |      |                 | 06/30/11 19:33  | 1              |         |
| 4-Bromofluorobenzene (Surr)   | 97                |                  | 77 - 112      |      |      |                 | 06/30/11 19:33  | 1              |         |
| Dibromofluoromethane          | 108               |                  | 78 - 119      |      |      |                 | 06/30/11 19:33  | 1              |         |

# Client Sample Results

Client: Environmental Information Logistics (EIL)  
 Project/Site: Interstate Pollution Control Site

TestAmerica Job ID: 500-35654-1

**Client Sample ID: IPCGWMW8**

**Lab Sample ID: 500-35654-8**

Matrix: Water

Date Collected: 06/20/11 09:36  
 Date Received: 06/21/11 10:15

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

| Analyte                       | Result            | Qualifier        | RL            | MDL  | Unit | D               | Prepared        | Analyzed       | Dil Fac |
|-------------------------------|-------------------|------------------|---------------|------|------|-----------------|-----------------|----------------|---------|
| Benzene                       | <5.0              |                  | 5.0           | 0.12 | ug/L |                 |                 | 07/01/11 15:37 | 1       |
| Chloromethane                 | <5.0              |                  | 5.0           | 0.24 | ug/L |                 |                 | 07/01/11 15:37 | 1       |
| Vinyl chloride                | <2.0              |                  | 2.0           | 0.13 | ug/L |                 |                 | 07/01/11 15:37 | 1       |
| Bromomethane                  | <5.0              |                  | 5.0           | 0.49 | ug/L |                 |                 | 07/01/11 15:37 | 1       |
| Chloroethane                  | <5.0              |                  | 5.0           | 0.33 | ug/L |                 |                 | 07/01/11 15:37 | 1       |
| 1,1-Dichloroethene            | <5.0              |                  | 5.0           | 0.29 | ug/L |                 |                 | 07/01/11 15:37 | 1       |
| Carbon disulfide              | <5.0              |                  | 5.0           | 0.44 | ug/L |                 |                 | 07/01/11 15:37 | 1       |
| Acetone                       | <20               |                  | 20            | 1.9  | ug/L |                 |                 | 07/01/11 15:37 | 1       |
| Methylene Chloride            | <10               |                  | 10            | 0.63 | ug/L |                 |                 | 07/01/11 15:37 | 1       |
| trans-1,2-Dichloroethene      | <5.0              |                  | 5.0           | 0.27 | ug/L |                 |                 | 07/01/11 15:37 | 1       |
| <b>1,1-Dichloroethane</b>     | <b>7.9</b>        |                  | 5.0           | 0.24 | ug/L |                 |                 | 07/01/11 15:37 | 1       |
| <b>cis-1,2-Dichloroethene</b> | <b>17</b>         |                  | 5.0           | 0.22 | ug/L |                 |                 | 07/01/11 15:37 | 1       |
| Methyl Ethyl Ketone           | <20               |                  | 20            | 1.0  | ug/L |                 |                 | 07/01/11 15:37 | 1       |
| Chloroform                    | <5.0              |                  | 5.0           | 0.25 | ug/L |                 |                 | 07/01/11 15:37 | 1       |
| 1,1,1-Trichloroethane         | <5.0              |                  | 5.0           | 0.26 | ug/L |                 |                 | 07/01/11 15:37 | 1       |
| Carbon tetrachloride          | <5.0              |                  | 5.0           | 0.28 | ug/L |                 |                 | 07/01/11 15:37 | 1       |
| 1,2-Dichloroethane            | <5.0              |                  | 5.0           | 0.28 | ug/L |                 |                 | 07/01/11 15:37 | 1       |
| <b>Trichloroethene</b>        | <b>28</b>         |                  | 5.0           | 0.18 | ug/L |                 |                 | 07/01/11 15:37 | 1       |
| 1,2-Dichloropropane           | <5.0              |                  | 5.0           | 0.36 | ug/L |                 |                 | 07/01/11 15:37 | 1       |
| Bromodichloromethane          | <5.0              |                  | 5.0           | 0.23 | ug/L |                 |                 | 07/01/11 15:37 | 1       |
| cis-1,3-Dichloropropene       | <5.0              |                  | 5.0           | 0.28 | ug/L |                 |                 | 07/01/11 15:37 | 1       |
| methyl isobutyl ketone        | <20               |                  | 20            | 0.79 | ug/L |                 |                 | 07/01/11 15:37 | 1       |
| Toluene                       | <5.0              |                  | 5.0           | 0.15 | ug/L |                 |                 | 07/01/11 15:37 | 1       |
| trans-1,3-Dichloropropene     | <5.0              |                  | 5.0           | 0.35 | ug/L |                 |                 | 07/01/11 15:37 | 1       |
| 1,1,2-Trichloroethane         | <5.0              |                  | 5.0           | 0.30 | ug/L |                 |                 | 07/01/11 15:37 | 1       |
| Tetrachloroethene             | <5.0              |                  | 5.0           | 0.22 | ug/L |                 |                 | 07/01/11 15:37 | 1       |
| 2-Hexanone                    | <20               |                  | 20            | 0.56 | ug/L |                 |                 | 07/01/11 15:37 | 1       |
| Dibromochloromethane          | <5.0              |                  | 5.0           | 0.25 | ug/L |                 |                 | 07/01/11 15:37 | 1       |
| Chlorobenzene                 | <5.0              |                  | 5.0           | 0.24 | ug/L |                 |                 | 07/01/11 15:37 | 1       |
| Ethylbenzene                  | <5.0              |                  | 5.0           | 0.14 | ug/L |                 |                 | 07/01/11 15:37 | 1       |
| Styrene                       | <5.0              |                  | 5.0           | 0.26 | ug/L |                 |                 | 07/01/11 15:37 | 1       |
| Bromoform                     | <5.0              |                  | 5.0           | 0.45 | ug/L |                 |                 | 07/01/11 15:37 | 1       |
| 1,1,2,2-Tetrachloroethane     | <5.0              |                  | 5.0           | 0.35 | ug/L |                 |                 | 07/01/11 15:37 | 1       |
| Xylenes, Total                | <5.0              |                  | 5.0           | 0.30 | ug/L |                 |                 | 07/01/11 15:37 | 1       |
| <b>Surrogate</b>              | <b>% Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |      |      | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |         |
| 1,2-Dichloroethane-d4 (Surr)  | 113               |                  | 77 - 124      |      |      |                 | 07/01/11 15:37  | 1              |         |
| Toluene-d8 (Surr)             | 103               |                  | 80 - 121      |      |      |                 | 07/01/11 15:37  | 1              |         |
| 4-Bromofluorobenzene (Surr)   | 96                |                  | 77 - 112      |      |      |                 | 07/01/11 15:37  | 1              |         |
| Dibromofluoromethane          | 105               |                  | 78 - 119      |      |      |                 | 07/01/11 15:37  | 1              |         |

# Client Sample Results

Client: Environmental Information Logistics (EIL)  
 Project/Site: Interstate Pollution Control Site

TestAmerica Job ID: 500-35654-1

**Client Sample ID: IPCGWMW9**

**Lab Sample ID: 500-35654-9**

Matrix: Water

Date Collected: 06/20/11 09:54  
 Date Received: 06/21/11 10:15

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

| Analyte                      | Result            | Qualifier        | RL            | MDL  | Unit | D               | Prepared        | Analyzed       | Dil Fac |
|------------------------------|-------------------|------------------|---------------|------|------|-----------------|-----------------|----------------|---------|
| Benzene                      | <5.0              |                  | 5.0           | 0.12 | ug/L |                 |                 | 07/01/11 16:02 | 1       |
| Chloromethane                | <5.0              |                  | 5.0           | 0.24 | ug/L |                 |                 | 07/01/11 16:02 | 1       |
| Vinyl chloride               | <2.0              |                  | 2.0           | 0.13 | ug/L |                 |                 | 07/01/11 16:02 | 1       |
| Bromomethane                 | <5.0              |                  | 5.0           | 0.49 | ug/L |                 |                 | 07/01/11 16:02 | 1       |
| Chloroethane                 | <5.0              |                  | 5.0           | 0.33 | ug/L |                 |                 | 07/01/11 16:02 | 1       |
| 1,1-Dichloroethene           | <5.0              |                  | 5.0           | 0.29 | ug/L |                 |                 | 07/01/11 16:02 | 1       |
| Carbon disulfide             | <5.0              |                  | 5.0           | 0.44 | ug/L |                 |                 | 07/01/11 16:02 | 1       |
| Acetone                      | <20               |                  | 20            | 1.9  | ug/L |                 |                 | 07/01/11 16:02 | 1       |
| Methylene Chloride           | <10               |                  | 10            | 0.63 | ug/L |                 |                 | 07/01/11 16:02 | 1       |
| trans-1,2-Dichloroethene     | <5.0              |                  | 5.0           | 0.27 | ug/L |                 |                 | 07/01/11 16:02 | 1       |
| 1,1-Dichloroethane           | <5.0              |                  | 5.0           | 0.24 | ug/L |                 |                 | 07/01/11 16:02 | 1       |
| cis-1,2-Dichloroethene       | <5.0              |                  | 5.0           | 0.22 | ug/L |                 |                 | 07/01/11 16:02 | 1       |
| Methyl Ethyl Ketone          | <20               |                  | 20            | 1.0  | ug/L |                 |                 | 07/01/11 16:02 | 1       |
| Chloroform                   | <5.0              |                  | 5.0           | 0.25 | ug/L |                 |                 | 07/01/11 16:02 | 1       |
| 1,1,1-Trichloroethane        | <5.0              |                  | 5.0           | 0.26 | ug/L |                 |                 | 07/01/11 16:02 | 1       |
| Carbon tetrachloride         | <5.0              |                  | 5.0           | 0.28 | ug/L |                 |                 | 07/01/11 16:02 | 1       |
| 1,2-Dichloroethane           | <5.0              |                  | 5.0           | 0.28 | ug/L |                 |                 | 07/01/11 16:02 | 1       |
| Trichloroethene              | <5.0              |                  | 5.0           | 0.18 | ug/L |                 |                 | 07/01/11 16:02 | 1       |
| 1,2-Dichloropropane          | <5.0              |                  | 5.0           | 0.36 | ug/L |                 |                 | 07/01/11 16:02 | 1       |
| Bromodichloromethane         | <5.0              |                  | 5.0           | 0.23 | ug/L |                 |                 | 07/01/11 16:02 | 1       |
| cis-1,3-Dichloropropene      | <5.0              |                  | 5.0           | 0.28 | ug/L |                 |                 | 07/01/11 16:02 | 1       |
| methyl isobutyl ketone       | <20               |                  | 20            | 0.79 | ug/L |                 |                 | 07/01/11 16:02 | 1       |
| Toluene                      | <5.0              |                  | 5.0           | 0.15 | ug/L |                 |                 | 07/01/11 16:02 | 1       |
| trans-1,3-Dichloropropene    | <5.0              |                  | 5.0           | 0.35 | ug/L |                 |                 | 07/01/11 16:02 | 1       |
| 1,1,2-Trichloroethane        | <5.0              |                  | 5.0           | 0.30 | ug/L |                 |                 | 07/01/11 16:02 | 1       |
| Tetrachloroethene            | <5.0              |                  | 5.0           | 0.22 | ug/L |                 |                 | 07/01/11 16:02 | 1       |
| 2-Hexanone                   | <20               |                  | 20            | 0.56 | ug/L |                 |                 | 07/01/11 16:02 | 1       |
| Dibromochloromethane         | <5.0              |                  | 5.0           | 0.25 | ug/L |                 |                 | 07/01/11 16:02 | 1       |
| Chlorobenzene                | <5.0              |                  | 5.0           | 0.24 | ug/L |                 |                 | 07/01/11 16:02 | 1       |
| Ethylbenzene                 | <5.0              |                  | 5.0           | 0.14 | ug/L |                 |                 | 07/01/11 16:02 | 1       |
| Styrene                      | <5.0              |                  | 5.0           | 0.26 | ug/L |                 |                 | 07/01/11 16:02 | 1       |
| Bromoform                    | <5.0              |                  | 5.0           | 0.45 | ug/L |                 |                 | 07/01/11 16:02 | 1       |
| 1,1,2,2-Tetrachloroethane    | <5.0              |                  | 5.0           | 0.35 | ug/L |                 |                 | 07/01/11 16:02 | 1       |
| Xylenes, Total               | <5.0              |                  | 5.0           | 0.30 | ug/L |                 |                 | 07/01/11 16:02 | 1       |
| <b>Surrogate</b>             | <b>% Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |      |      | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |         |
| 1,2-Dichloroethane-d4 (Surr) | 116               |                  | 77 - 124      |      |      |                 | 07/01/11 16:02  | 1              |         |
| Toluene-d8 (Surr)            | 107               |                  | 80 - 121      |      |      |                 | 07/01/11 16:02  | 1              |         |
| 4-Bromofluorobenzene (Surr)  | 99                |                  | 77 - 112      |      |      |                 | 07/01/11 16:02  | 1              |         |
| Dibromofluoromethane         | 108               |                  | 78 - 119      |      |      |                 | 07/01/11 16:02  | 1              |         |

# Client Sample Results

Client: Environmental Information Logistics (EIL)  
 Project/Site: Interstate Pollution Control Site

TestAmerica Job ID: 500-35654-1

**Client Sample ID: IPCFB**

Date Collected: 06/20/11 14:00

Date Received: 06/21/11 10:15

**Lab Sample ID: 500-35654-10**

Matrix: Water

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

| Analyte                      | Result | Qualifier         | RL               | MDL           | Unit | D | Prepared        | Analyzed        | Dil Fac        |
|------------------------------|--------|-------------------|------------------|---------------|------|---|-----------------|-----------------|----------------|
| Benzene                      | <5.0   |                   | 5.0              | 0.12          | ug/L |   |                 | 07/01/11 16:28  | 1              |
| Chloromethane                | <5.0   |                   | 5.0              | 0.24          | ug/L |   |                 | 07/01/11 16:28  | 1              |
| Vinyl chloride               | <2.0   |                   | 2.0              | 0.13          | ug/L |   |                 | 07/01/11 16:28  | 1              |
| Bromomethane                 | <5.0   |                   | 5.0              | 0.49          | ug/L |   |                 | 07/01/11 16:28  | 1              |
| Chloroethane                 | <5.0   |                   | 5.0              | 0.33          | ug/L |   |                 | 07/01/11 16:28  | 1              |
| 1,1-Dichloroethene           | <5.0   |                   | 5.0              | 0.29          | ug/L |   |                 | 07/01/11 16:28  | 1              |
| Carbon disulfide             | <5.0   |                   | 5.0              | 0.44          | ug/L |   |                 | 07/01/11 16:28  | 1              |
| Acetone                      | <20    |                   | 20               | 1.9           | ug/L |   |                 | 07/01/11 16:28  | 1              |
| Methylene Chloride           | <10    |                   | 10               | 0.63          | ug/L |   |                 | 07/01/11 16:28  | 1              |
| trans-1,2-Dichloroethene     | <5.0   |                   | 5.0              | 0.27          | ug/L |   |                 | 07/01/11 16:28  | 1              |
| 1,1-Dichloroethane           | <5.0   |                   | 5.0              | 0.24          | ug/L |   |                 | 07/01/11 16:28  | 1              |
| cis-1,2-Dichloroethene       | <5.0   |                   | 5.0              | 0.22          | ug/L |   |                 | 07/01/11 16:28  | 1              |
| Methyl Ethyl Ketone          | <20    |                   | 20               | 1.0           | ug/L |   |                 | 07/01/11 16:28  | 1              |
| Chloroform                   | <5.0   |                   | 5.0              | 0.25          | ug/L |   |                 | 07/01/11 16:28  | 1              |
| 1,1,1-Trichloroethane        | <5.0   |                   | 5.0              | 0.26          | ug/L |   |                 | 07/01/11 16:28  | 1              |
| Carbon tetrachloride         | <5.0   |                   | 5.0              | 0.28          | ug/L |   |                 | 07/01/11 16:28  | 1              |
| 1,2-Dichloroethane           | <5.0   |                   | 5.0              | 0.28          | ug/L |   |                 | 07/01/11 16:28  | 1              |
| Trichloroethene              | <5.0   |                   | 5.0              | 0.18          | ug/L |   |                 | 07/01/11 16:28  | 1              |
| 1,2-Dichloropropane          | <5.0   |                   | 5.0              | 0.36          | ug/L |   |                 | 07/01/11 16:28  | 1              |
| Bromodichloromethane         | <5.0   |                   | 5.0              | 0.23          | ug/L |   |                 | 07/01/11 16:28  | 1              |
| cis-1,3-Dichloropropene      | <5.0   |                   | 5.0              | 0.28          | ug/L |   |                 | 07/01/11 16:28  | 1              |
| methyl isobutyl ketone       | <20    |                   | 20               | 0.79          | ug/L |   |                 | 07/01/11 16:28  | 1              |
| Toluene                      | <5.0   |                   | 5.0              | 0.15          | ug/L |   |                 | 07/01/11 16:28  | 1              |
| trans-1,3-Dichloropropene    | <5.0   |                   | 5.0              | 0.35          | ug/L |   |                 | 07/01/11 16:28  | 1              |
| 1,1,2-Trichloroethane        | <5.0   |                   | 5.0              | 0.30          | ug/L |   |                 | 07/01/11 16:28  | 1              |
| Tetrachloroethene            | <5.0   |                   | 5.0              | 0.22          | ug/L |   |                 | 07/01/11 16:28  | 1              |
| 2-Hexanone                   | <20    |                   | 20               | 0.56          | ug/L |   |                 | 07/01/11 16:28  | 1              |
| Dibromochloromethane         | <5.0   |                   | 5.0              | 0.25          | ug/L |   |                 | 07/01/11 16:28  | 1              |
| Chlorobenzene                | <5.0   |                   | 5.0              | 0.24          | ug/L |   |                 | 07/01/11 16:28  | 1              |
| Ethylbenzene                 | <5.0   |                   | 5.0              | 0.14          | ug/L |   |                 | 07/01/11 16:28  | 1              |
| Styrene                      | <5.0   |                   | 5.0              | 0.26          | ug/L |   |                 | 07/01/11 16:28  | 1              |
| Bromoform                    | <5.0   |                   | 5.0              | 0.45          | ug/L |   |                 | 07/01/11 16:28  | 1              |
| 1,1,2,2-Tetrachloroethane    | <5.0   |                   | 5.0              | 0.35          | ug/L |   |                 | 07/01/11 16:28  | 1              |
| Xylenes, Total               | <5.0   |                   | 5.0              | 0.30          | ug/L |   |                 | 07/01/11 16:28  | 1              |
| <b>Surrogate</b>             |        | <b>% Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |      |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| 1,2-Dichloroethane-d4 (Surr) |        | 119               |                  | 77 - 124      |      |   |                 | 07/01/11 16:28  | 1              |
| Toluene-d8 (Surr)            |        | 107               |                  | 80 - 121      |      |   |                 | 07/01/11 16:28  | 1              |
| 4-Bromofluorobenzene (Surr)  |        | 99                |                  | 77 - 112      |      |   |                 | 07/01/11 16:28  | 1              |
| Dibromofluoromethane         |        | 110               |                  | 78 - 119      |      |   |                 | 07/01/11 16:28  | 1              |

# Client Sample Results

Client: Environmental Information Logistics (EIL)  
 Project/Site: Interstate Pollution Control Site

TestAmerica Job ID: 500-35654-1

## Client Sample ID: TRIP BLANK

Date Collected: 06/20/11 00:00  
 Date Received: 06/21/11 10:15

## Lab Sample ID: 500-35654-11

Matrix: Water

### Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte                   | Result | Qualifier | RL  | MDL  | Unit | D | Prepared       | Analyzed | Dil Fac |
|---------------------------|--------|-----------|-----|------|------|---|----------------|----------|---------|
| Benzene                   | <5.0   |           | 5.0 | 0.12 | ug/L |   | 07/01/11 16:54 |          | 1       |
| Chloromethane             | <5.0   |           | 5.0 | 0.24 | ug/L |   | 07/01/11 16:54 |          | 1       |
| Vinyl chloride            | <2.0   |           | 2.0 | 0.13 | ug/L |   | 07/01/11 16:54 |          | 1       |
| Bromomethane              | <5.0   |           | 5.0 | 0.49 | ug/L |   | 07/01/11 16:54 |          | 1       |
| Chloroethane              | <5.0   |           | 5.0 | 0.33 | ug/L |   | 07/01/11 16:54 |          | 1       |
| 1,1-Dichloroethene        | <5.0   |           | 5.0 | 0.29 | ug/L |   | 07/01/11 16:54 |          | 1       |
| Carbon disulfide          | <5.0   |           | 5.0 | 0.44 | ug/L |   | 07/01/11 16:54 |          | 1       |
| Acetone                   | <20    |           | 20  | 1.9  | ug/L |   | 07/01/11 16:54 |          | 1       |
| Methylene Chloride        | <10    |           | 10  | 0.63 | ug/L |   | 07/01/11 16:54 |          | 1       |
| trans-1,2-Dichloroethene  | <5.0   |           | 5.0 | 0.27 | ug/L |   | 07/01/11 16:54 |          | 1       |
| 1,1-Dichloroethane        | <5.0   |           | 5.0 | 0.24 | ug/L |   | 07/01/11 16:54 |          | 1       |
| cis-1,2-Dichloroethene    | <5.0   |           | 5.0 | 0.22 | ug/L |   | 07/01/11 16:54 |          | 1       |
| Methyl Ethyl Ketone       | <20    |           | 20  | 1.0  | ug/L |   | 07/01/11 16:54 |          | 1       |
| Chloroform                | <5.0   |           | 5.0 | 0.25 | ug/L |   | 07/01/11 16:54 |          | 1       |
| 1,1,1-Trichloroethane     | <5.0   |           | 5.0 | 0.26 | ug/L |   | 07/01/11 16:54 |          | 1       |
| Carbon tetrachloride      | <5.0   |           | 5.0 | 0.28 | ug/L |   | 07/01/11 16:54 |          | 1       |
| 1,2-Dichloroethane        | <5.0   |           | 5.0 | 0.28 | ug/L |   | 07/01/11 16:54 |          | 1       |
| Trichloroethene           | <5.0   |           | 5.0 | 0.18 | ug/L |   | 07/01/11 16:54 |          | 1       |
| 1,2-Dichloropropane       | <5.0   |           | 5.0 | 0.36 | ug/L |   | 07/01/11 16:54 |          | 1       |
| Bromodichloromethane      | <5.0   |           | 5.0 | 0.23 | ug/L |   | 07/01/11 16:54 |          | 1       |
| cis-1,3-Dichloropropene   | <5.0   |           | 5.0 | 0.28 | ug/L |   | 07/01/11 16:54 |          | 1       |
| methyl isobutyl ketone    | <20    |           | 20  | 0.79 | ug/L |   | 07/01/11 16:54 |          | 1       |
| Toluene                   | <5.0   |           | 5.0 | 0.15 | ug/L |   | 07/01/11 16:54 |          | 1       |
| trans-1,3-Dichloropropene | <5.0   |           | 5.0 | 0.35 | ug/L |   | 07/01/11 16:54 |          | 1       |
| 1,1,2-Trichloroethane     | <5.0   |           | 5.0 | 0.30 | ug/L |   | 07/01/11 16:54 |          | 1       |
| Tetrachloroethene         | <5.0   |           | 5.0 | 0.22 | ug/L |   | 07/01/11 16:54 |          | 1       |
| 2-Hexanone                | <20    |           | 20  | 0.56 | ug/L |   | 07/01/11 16:54 |          | 1       |
| Dibromochloromethane      | <5.0   |           | 5.0 | 0.25 | ug/L |   | 07/01/11 16:54 |          | 1       |
| Chlorobenzene             | <5.0   |           | 5.0 | 0.24 | ug/L |   | 07/01/11 16:54 |          | 1       |
| Ethylbenzene              | <5.0   |           | 5.0 | 0.14 | ug/L |   | 07/01/11 16:54 |          | 1       |
| Styrene                   | <5.0   |           | 5.0 | 0.26 | ug/L |   | 07/01/11 16:54 |          | 1       |
| Bromoform                 | <5.0   |           | 5.0 | 0.45 | ug/L |   | 07/01/11 16:54 |          | 1       |
| 1,1,2,2-Tetrachloroethane | <5.0   |           | 5.0 | 0.35 | ug/L |   | 07/01/11 16:54 |          | 1       |
| Xylenes, Total            | <5.0   |           | 5.0 | 0.30 | ug/L |   | 07/01/11 16:54 |          | 1       |

| Surrogate                    | % Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|------------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 121        |           | 77 - 124 |          | 07/01/11 16:54 | 1       |
| Toluene-d8 (Surr)            | 114        |           | 80 - 121 |          | 07/01/11 16:54 | 1       |
| 4-Bromofluorobenzene (Surr)  | 104        |           | 77 - 112 |          | 07/01/11 16:54 | 1       |
| Dibromofluoromethane         | 117        |           | 78 - 119 |          | 07/01/11 16:54 | 1       |

## Definitions/Glossary

Client: Environmental Information Logistics (EIL)  
Project/Site: Interstate Pollution Control Site

TestAmerica Job ID: 500-35654-1

### Qualifiers

#### GC/MS VOA

| Qualifier | Qualifier Description                |
|-----------|--------------------------------------|
| F         | MS or MSD exceeds the control limits |

### Glossary

**Abbreviation** These commonly used abbreviations may or may not be present in this report.

|                |  |
|----------------|--|
| ☀              | Listed under the "D" column to designate that the result is reported on a dry weight basis                 |
| %R             | Percent Recovery   |
| DL, RA, RE, IN | Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| EDL            | Estimated Detection Limit (Dioxin)   |
| EPA            | United States Environmental Protection Agency  |
| MDL            | Method Detection Limit   |
| ML             | Minimum Level (Dioxin)   |
| ND             | Not detected at the reporting limit (or method detection limit if shown)                                   |
| PQL            | Practical Quantitation Limit   |
| RL             | Reporting Limit  |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                       |
| TEF            | Toxicity Equivalent Factor (Dioxin)  |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)  |

# QC Association Summary

Client: Environmental Information Logistics (EIL)  
Project/Site: Interstate Pollution Control Site

TestAmerica Job ID: 500-35654-1

## GC/MS VOA

### Analysis Batch: 118140

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| MB 500-118140/4  | Method Blank       | Total/NA  | Water  | 8260B  | 5          |
| LCS 500-118140/5 | Lab Control Sample | Total/NA  | Water  | 8260B  | 6          |
| 500-35654-1      | IPCGWMW1           | Total/NA  | Water  | 8260B  | 7          |
| 500-35654-2      | IPCGWMW2           | Total/NA  | Water  | 8260B  | 8          |
| 500-35654-4      | IPCGWMW4           | Total/NA  | Water  | 8260B  | 9          |
| 500-35654-5      | IPCGWMW5           | Total/NA  | Water  | 8260B  | 10         |
| 500-35654-6      | IPCGWMW6           | Total/NA  | Water  | 8260B  | 11         |
| 500-35654-6 MS   | IPCGWMW6           | Total/NA  | Water  | 8260B  | 12         |
| 500-35654-6 MSD  | IPCGWMW6           | Total/NA  | Water  | 8260B  | 13         |
| 500-35654-7      | IPCGWMW7           | Total/NA  | Water  | 8260B  | 14         |

### Analysis Batch: 118330

| Lab Sample ID    | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| MB 500-118330/3  | Method Blank       | Total/NA  | Water  | 8260B  | 11         |
| LCS 500-118330/4 | Lab Control Sample | Total/NA  | Water  | 8260B  | 12         |
| 500-35654-3      | IPCGWMW3           | Total/NA  | Water  | 8260B  | 13         |
| 500-35654-8      | IPCGWMW8           | Total/NA  | Water  | 8260B  | 14         |
| 500-35654-9      | IPCGWMW9           | Total/NA  | Water  | 8260B  |            |
| 500-35654-10     | IPCFB              | Total/NA  | Water  | 8260B  |            |
| 500-35654-11     | TRIP BLANK         | Total/NA  | Water  | 8260B  |            |

# Surrogate Summary

Client: Environmental Information Logistics (EIL)  
Project/Site: Interstate Pollution Control Site

TestAmerica Job ID: 500-35654-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID    | Client Sample ID   | Percent Surrogate Recovery (Acceptance Limits) |                 |                 |                  |
|------------------|--------------------|--|-----------------|-----------------|------------------|
|                  |                    | 12DCE<br>(77-124)                              | TOL<br>(80-121) | BFB<br>(77-112) | DBFM<br>(78-119) |
| 500-35654-1      | IPCGWMW1           | 105  | 97              | 92              | 96               |
| 500-35654-2      | IPCGWMW2           | 121  | 105             | 102             | 107              |
| 500-35654-3      | IPCGWMW3           | 110  | 102             | 94              | 103              |
| 500-35654-4      | IPCGWMW4           | 123  | 112             | 103             | 115              |
| 500-35654-5      | IPCGWMW5           | 120  | 108             | 100             | 114              |
| 500-35654-6      | IPCGWMW6           | 115  | 103             | 96              | 106              |
| 500-35654-6 MS   | IPCGWMW6           | 120  | 106             | 109             | 115              |
| 500-35654-6 MSD  | IPCGWMW6           | 114  | 107             | 103             | 111              |
| 500-35654-7      | IPCGWMW7           | 113  | 100             | 97              | 108              |
| 500-35654-8      | IPCGWMW8           | 113  | 103             | 96              | 105              |
| 500-35654-9      | IPCGWMW9           | 116  | 107             | 99              | 108              |
| 500-35654-10     | IPCFB              | 119  | 107             | 99              | 110              |
| 500-35654-11     | TRIP BLANK         | 121  | 114             | 104             | 117              |
| LCS 500-118140/5 | Lab Control Sample | 121  | 114             | 112             | 114              |
| LCS 500-118330/4 | Lab Control Sample | 114  | 106             | 106             | 110              |
| MB 500-118140/4  | Method Blank       | 107  | 98              | 92              | 98               |
| MB 500-118330/3  | Method Blank       | 121  | 111             | 105             | 112              |

### Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane

# QC Sample Results

Client: Environmental Information Logistics (EIL)  
 Project/Site: Interstate Pollution Control Site

TestAmerica Job ID: 500-35654-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Lab Sample ID:** MB 500-118140/4

**Matrix:** Water

**Analysis Batch:** 118140

**Client Sample ID:** Method Blank

**Prep Type:** Total/NA

| Analyte                   | MB     | MB        | D   | Prepared  | Analyzed       | Dil Fac |
|---------------------------|--------|-----------|-----|-----------|----------------|---------|
|                           | Result | Qualifier |     |           |                |         |
| Benzene                   | <5.0   |           | 5.0 | 0.12 ug/L | 06/30/11 10:03 | 1       |
| Chloromethane             | <5.0   |           | 5.0 | 0.24 ug/L | 06/30/11 10:03 | 1       |
| Vinyl chloride            | <2.0   |           | 2.0 | 0.13 ug/L | 06/30/11 10:03 | 1       |
| Bromomethane              | <5.0   |           | 5.0 | 0.49 ug/L | 06/30/11 10:03 | 1       |
| Chloroethane              | <5.0   |           | 5.0 | 0.33 ug/L | 06/30/11 10:03 | 1       |
| 1,1-Dichloroethene        | <5.0   |           | 5.0 | 0.29 ug/L | 06/30/11 10:03 | 1       |
| Carbon disulfide          | <5.0   |           | 5.0 | 0.44 ug/L | 06/30/11 10:03 | 1       |
| Acetone                   | <20    |           | 20  | 1.9 ug/L  | 06/30/11 10:03 | 1       |
| Methylene Chloride        | <10    |           | 10  | 0.63 ug/L | 06/30/11 10:03 | 1       |
| trans-1,2-Dichloroethene  | <5.0   |           | 5.0 | 0.27 ug/L | 06/30/11 10:03 | 1       |
| 1,1-Dichloroethane        | <5.0   |           | 5.0 | 0.24 ug/L | 06/30/11 10:03 | 1       |
| cis-1,2-Dichloroethene    | <5.0   |           | 5.0 | 0.22 ug/L | 06/30/11 10:03 | 1       |
| Methyl Ethyl Ketone       | <20    |           | 20  | 1.0 ug/L  | 06/30/11 10:03 | 1       |
| Chloroform                | <5.0   |           | 5.0 | 0.25 ug/L | 06/30/11 10:03 | 1       |
| 1,1,1-Trichloroethane     | <5.0   |           | 5.0 | 0.26 ug/L | 06/30/11 10:03 | 1       |
| Carbon tetrachloride      | <5.0   |           | 5.0 | 0.28 ug/L | 06/30/11 10:03 | 1       |
| 1,2-Dichloroethane        | <5.0   |           | 5.0 | 0.28 ug/L | 06/30/11 10:03 | 1       |
| Trichloroethene           | <5.0   |           | 5.0 | 0.18 ug/L | 06/30/11 10:03 | 1       |
| 1,2-Dichloropropane       | <5.0   |           | 5.0 | 0.36 ug/L | 06/30/11 10:03 | 1       |
| Bromodichloromethane      | <5.0   |           | 5.0 | 0.23 ug/L | 06/30/11 10:03 | 1       |
| cis-1,3-Dichloropropene   | <5.0   |           | 5.0 | 0.28 ug/L | 06/30/11 10:03 | 1       |
| methyl isobutyl ketone    | <20    |           | 20  | 0.79 ug/L | 06/30/11 10:03 | 1       |
| Toluene                   | <5.0   |           | 5.0 | 0.15 ug/L | 06/30/11 10:03 | 1       |
| trans-1,3-Dichloropropene | <5.0   |           | 5.0 | 0.35 ug/L | 06/30/11 10:03 | 1       |
| 1,1,2-Trichloroethane     | <5.0   |           | 5.0 | 0.30 ug/L | 06/30/11 10:03 | 1       |
| Tetrachloroethene         | <5.0   |           | 5.0 | 0.22 ug/L | 06/30/11 10:03 | 1       |
| 2-Hexanone                | <20    |           | 20  | 0.56 ug/L | 06/30/11 10:03 | 1       |
| Dibromochloromethane      | <5.0   |           | 5.0 | 0.25 ug/L | 06/30/11 10:03 | 1       |
| Chlorobenzene             | <5.0   |           | 5.0 | 0.24 ug/L | 06/30/11 10:03 | 1       |
| Ethylbenzene              | <5.0   |           | 5.0 | 0.14 ug/L | 06/30/11 10:03 | 1       |
| Styrene                   | <5.0   |           | 5.0 | 0.26 ug/L | 06/30/11 10:03 | 1       |
| Bromoform                 | <5.0   |           | 5.0 | 0.45 ug/L | 06/30/11 10:03 | 1       |
| 1,1,2,2-Tetrachloroethane | <5.0   |           | 5.0 | 0.35 ug/L | 06/30/11 10:03 | 1       |
| Xylenes, Total            | <5.0   |           | 5.0 | 0.30 ug/L | 06/30/11 10:03 | 1       |

| Surrogate                    | MB         | MB        | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|------------|-----------|----------|----------|----------------|---------|
|                              | % Recovery | Qualifier |          |          |                |         |
| 1,2-Dichloroethane-d4 (Surr) | 107        |           | 77 - 124 |          | 06/30/11 10:03 | 1       |
| Toluene-d8 (Surr)            | 98         |           | 80 - 121 |          | 06/30/11 10:03 | 1       |
| 4-Bromofluorobenzene (Surr)  | 92         |           | 77 - 112 |          | 06/30/11 10:03 | 1       |
| Dibromofluoromethane         | 98         |           | 78 - 119 |          | 06/30/11 10:03 | 1       |

**Lab Sample ID:** LCS 500-118140/5

**Matrix:** Water

**Analysis Batch:** 118140

**Client Sample ID:** Lab Control Sample  
**Prep Type:** Total/NA

| Analyte        | Spike | LCS    | LCS       | D    | % Rec. | Limits   |
|----------------|-------|--------|-----------|------|--------|----------|
|                | Added | Result | Qualifier |      |        |          |
| Benzene        | 50.0  | 48.6   |           | ug/L | 97     | 74 - 113 |
| Chloromethane  | 50.0  | 60.9   |           | ug/L | 122    | 36 - 148 |
| Vinyl chloride | 50.0  | 60.0   |           | ug/L | 120    | 47 - 138 |

# QC Sample Results

Client: Environmental Information Logistics (EIL)  
 Project/Site: Interstate Pollution Control Site

TestAmerica Job ID: 500-35654-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 500-118140/5**

**Matrix: Water**

**Analysis Batch: 118140**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

| Analyte                   | Spike<br>Added | LCS    |           |      | D   | % Rec.   | Limits |
|---------------------------|----------------|--------|-----------|------|-----|----------|--------|
|                           |                | Result | Qualifier | Unit |     |          |        |
| Bromomethane              | 50.0           | 65.7   |           | ug/L | 131 | 46 - 155 |        |
| Chloroethane              | 50.0           | 68.3   |           | ug/L | 137 | 54 - 149 |        |
| 1,1-Dichloroethene        | 50.0           | 39.7   |           | ug/L | 79  | 60 - 126 |        |
| Carbon disulfide          | 50.0           | 32.2   |           | ug/L | 64  | 36 - 110 |        |
| Acetone                   | 50.0           | 50.0   |           | ug/L | 100 | 43 - 153 |        |
| Methylene Chloride        | 50.0           | 43.6   |           | ug/L | 87  | 65 - 125 |        |
| trans-1,2-Dichloroethene  | 50.0           | 46.3   |           | ug/L | 93  | 67 - 120 |        |
| 1,1-Dichloroethane        | 50.0           | 46.7   |           | ug/L | 93  | 64 - 117 |        |
| cis-1,2-Dichloroethene    | 50.0           | 49.3   |           | ug/L | 99  | 66 - 111 |        |
| Methyl Ethyl Ketone       | 50.0           | 46.3   |           | ug/L | 93  | 42 - 152 |        |
| Chloroform                | 50.0           | 52.0   |           | ug/L | 104 | 71 - 116 |        |
| 1,1,1-Trichloroethane     | 50.0           | 50.9   |           | ug/L | 102 | 66 - 128 |        |
| Carbon tetrachloride      | 50.0           | 46.0   |           | ug/L | 92  | 58 - 132 |        |
| 1,2-Dichloroethane        | 50.0           | 49.9   |           | ug/L | 100 | 69 - 115 |        |
| Trichloroethene           | 50.0           | 45.1   |           | ug/L | 90  | 75 - 116 |        |
| 1,2-Dichloropropane       | 50.0           | 48.1   |           | ug/L | 96  | 68 - 123 |        |
| Bromodichloromethane      | 50.0           | 52.1   |           | ug/L | 104 | 73 - 120 |        |
| cis-1,3-Dichloropropene   | 53.8           | 48.8   |           | ug/L | 91  | 65 - 114 |        |
| methyl isobutyl ketone    | 50.0           | 47.5   |           | ug/L | 95  | 56 - 138 |        |
| Toluene                   | 50.0           | 49.0   |           | ug/L | 98  | 76 - 121 |        |
| trans-1,3-Dichloropropene | 48.6           | 44.6   |           | ug/L | 92  | 60 - 119 |        |
| 1,1,2-Trichloroethane     | 50.0           | 49.6   |           | ug/L | 99  | 62 - 137 |        |
| Tetrachloroethene         | 50.0           | 45.8   |           | ug/L | 92  | 76 - 114 |        |
| 2-Hexanone                | 50.0           | 42.5   |           | ug/L | 85  | 55 - 138 |        |
| Dibromochloromethane      | 50.0           | 49.2   |           | ug/L | 98  | 73 - 118 |        |
| Chlorobenzene             | 50.0           | 47.1   |           | ug/L | 94  | 81 - 111 |        |
| Ethylbenzene              | 50.0           | 47.9   |           | ug/L | 96  | 79 - 114 |        |
| Styrene                   | 50.0           | 47.7   |           | ug/L | 95  | 76 - 118 |        |
| Bromoform                 | 50.0           | 46.8   |           | ug/L | 94  | 64 - 126 |        |
| 1,1,2,2-Tetrachloroethane | 50.0           | 52.2   |           | ug/L | 104 | 66 - 121 |        |
| Xylenes, Total            | 150            | 151    |           | ug/L | 100 | 74 - 117 |        |

### LCS

| Surrogate                    | % Recovery | Qualifier | Limits   |
|------------------------------|------------|-----------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 121        |           | 77 - 124 |
| Toluene-d8 (Surr)            | 114        |           | 80 - 121 |
| 4-Bromofluorobenzene (Surr)  | 112        |           | 77 - 112 |
| Dibromofluoromethane         | 114        |           | 78 - 119 |

**Lab Sample ID: 500-35654-6 MS**

**Matrix: Water**

**Analysis Batch: 118140**

**Client Sample ID: IPCGWMW6**  
**Prep Type: Total/NA**

| Analyte            | Sample | Sample    | Spike | MS     |           |      | D   | % Rec.   | Limits |
|--------------------|--------|-----------|-------|--------|-----------|------|-----|----------|--------|
|                    | Result | Qualifier | Added | Result | Qualifier | Unit |     |          |        |
| Benzene            | <5.0   |           | 50.0  | 50.4   |           | ug/L | 101 | 74 - 113 |        |
| Chloromethane      | <5.0   |           | 50.0  | 57.9   |           | ug/L | 116 | 36 - 148 |        |
| Vinyl chloride     | 10     |           | 50.0  | 67.4   |           | ug/L | 114 | 47 - 138 |        |
| Bromomethane       | <5.0   |           | 50.0  | 84.4   | F         | ug/L | 169 | 46 - 155 |        |
| Chloroethane       | <5.0   |           | 50.0  | 64.9   |           | ug/L | 130 | 54 - 149 |        |
| 1,1-Dichloroethene | 19     |           | 50.0  | 61.4   |           | ug/L | 85  | 60 - 126 |        |

# QC Sample Results

Client: Environmental Information Logistics (EIL)  
 Project/Site: Interstate Pollution Control Site

TestAmerica Job ID: 500-35654-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 500-35654-6 MS**

**Matrix: Water**

**Analysis Batch: 118140**

**Client Sample ID: IPCGWMW6**

**Prep Type: Total/NA**

| Analyte                   | Sample | Sample    | Spike | MS     | MS        | Unit | D | % Rec | Limits   | % Rec. |
|---------------------------|--------|-----------|-------|--------|-----------|------|---|-------|----------|--------|
|                           | Result | Qualifier | Added | Result | Qualifier |      |   |       |          |        |
| Carbon disulfide          | <5.0   |           | 50.0  | 33.3   |           | ug/L |   | 67    | 36 - 110 |        |
| Acetone                   | <20    |           | 50.0  | 46.4   |           | ug/L |   | 93    | 43 - 153 |        |
| Methylene Chloride        | <10    |           | 50.0  | 46.2   |           | ug/L |   | 92    | 65 - 125 |        |
| trans-1,2-Dichloroethene  | <5.0   |           | 50.0  | 49.3   |           | ug/L |   | 95    | 67 - 120 |        |
| 1,1-Dichloroethane        | 11     |           | 50.0  | 59.5   |           | ug/L |   | 98    | 64 - 117 |        |
| cis-1,2-Dichloroethene    | 91     |           | 50.0  | 152    | F         | ug/L |   | 122   | 66 - 111 |        |
| Methyl Ethyl Ketone       | <20    |           | 50.0  | 49.8   |           | ug/L |   | 100   | 42 - 152 |        |
| Chloroform                | <5.0   |           | 50.0  | 56.5   |           | ug/L |   | 113   | 71 - 116 |        |
| 1,1,1-Trichloroethane     | 26     |           | 50.0  | 80.5   |           | ug/L |   | 109   | 66 - 128 |        |
| Carbon tetrachloride      | <5.0   |           | 50.0  | 46.7   |           | ug/L |   | 93    | 58 - 132 |        |
| 1,2-Dichloroethane        | <5.0   |           | 50.0  | 53.2   |           | ug/L |   | 106   | 69 - 115 |        |
| Trichloroethene           | 130    |           | 50.0  | 180    |           | ug/L |   | 106   | 75 - 116 |        |
| 1,2-Dichloropropane       | <5.0   |           | 50.0  | 49.6   |           | ug/L |   | 99    | 68 - 123 |        |
| Bromodichloromethane      | <5.0   |           | 50.0  | 55.1   |           | ug/L |   | 110   | 73 - 120 |        |
| cis-1,3-Dichloropropene   | <5.0   |           | 53.8  | 49.0   |           | ug/L |   | 91    | 65 - 114 |        |
| methyl isobutyl ketone    | <20    |           | 50.0  | 48.1   |           | ug/L |   | 96    | 56 - 138 |        |
| Toluene                   | <5.0   |           | 50.0  | 48.0   |           | ug/L |   | 96    | 76 - 121 |        |
| trans-1,3-Dichloropropene | <5.0   |           | 48.6  | 43.9   |           | ug/L |   | 90    | 60 - 119 |        |
| 1,1,2-Trichloroethane     | <5.0   |           | 50.0  | 52.8   |           | ug/L |   | 106   | 62 - 137 |        |
| Tetrachloroethene         | 32     |           | 50.0  | 79.3   |           | ug/L |   | 94    | 76 - 114 |        |
| 2-Hexanone                | <20    |           | 50.0  | 45.5   |           | ug/L |   | 91    | 55 - 138 |        |
| Dibromochloromethane      | <5.0   |           | 50.0  | 52.7   |           | ug/L |   | 105   | 73 - 118 |        |
| Chlorobenzene             | <5.0   |           | 50.0  | 48.0   |           | ug/L |   | 96    | 81 - 111 |        |
| Ethylbenzene              | <5.0   |           | 50.0  | 48.7   |           | ug/L |   | 97    | 79 - 114 |        |
| Styrene                   | <5.0   |           | 50.0  | 48.5   |           | ug/L |   | 97    | 76 - 118 |        |
| Bromoform                 | <5.0   |           | 50.0  | 53.2   |           | ug/L |   | 106   | 64 - 126 |        |
| 1,1,2,2-Tetrachloroethane | <5.0   |           | 50.0  | 59.9   |           | ug/L |   | 120   | 66 - 121 |        |
| Xylenes, Total            | <5.0   |           | 150   | 152    |           | ug/L |   | 101   | 74 - 117 |        |

### MS MS

| Surrogate                    | MS         | MS        | MS       |
|------------------------------|------------|-----------|----------|
|                              | % Recovery | Qualifier | Limits   |
| 1,2-Dichloroethane-d4 (Surr) | 120        |           | 77 - 124 |
| Toluene-d8 (Surr)            | 106        |           | 80 - 121 |
| 4-Bromofluorobenzene (Surr)  | 109        |           | 77 - 112 |
| Dibromofluoromethane         | 115        |           | 78 - 119 |

**Lab Sample ID: 500-35654-6 MSD**

**Matrix: Water**

**Analysis Batch: 118140**

**Client Sample ID: IPCGWMW6**

**Prep Type: Total/NA**

| Analyte            | Sample | Sample    | Spike | MSD    | MSD       | Unit | D | % Rec | Limits   | RPD | Limit |
|--------------------|--------|-----------|-------|--------|-----------|------|---|-------|----------|-----|-------|
|                    | Result | Qualifier | Added | Result | Qualifier |      |   |       |          |     |       |
| Benzene            | <5.0   |           | 50.0  | 52.5   |           | ug/L |   | 105   | 74 - 113 | 4   | 20    |
| Chloromethane      | <5.0   |           | 50.0  | 55.2   |           | ug/L |   | 110   | 36 - 148 | 5   | 20    |
| Vinyl chloride     | 10     |           | 50.0  | 65.2   |           | ug/L |   | 110   | 47 - 138 | 3   | 20    |
| Bromomethane       | <5.0   |           | 50.0  | 81.6   | F         | ug/L |   | 163   | 46 - 155 | 3   | 20    |
| Chloroethane       | <5.0   |           | 50.0  | 61.9   |           | ug/L |   | 124   | 54 - 149 | 5   | 20    |
| 1,1-Dichloroethene | 19     |           | 50.0  | 62.2   |           | ug/L |   | 87    | 60 - 126 | 1   | 20    |
| Carbon disulfide   | <5.0   |           | 50.0  | 34.8   |           | ug/L |   | 70    | 36 - 110 | 4   | 20    |
| Acetone            | <20    |           | 50.0  | 47.8   |           | ug/L |   | 96    | 43 - 153 | 3   | 20    |
| Methylene Chloride | <10    |           | 50.0  | 47.7   |           | ug/L |   | 95    | 65 - 125 | 3   | 20    |

# QC Sample Results

Client: Environmental Information Logistics (EIL)  
 Project/Site: Interstate Pollution Control Site

TestAmerica Job ID: 500-35654-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: 500-35654-6 MSD**

**Matrix: Water**

**Analysis Batch: 118140**

**Client Sample ID: IPCGWMW6**

**Prep Type: Total/NA**

| Analyte                      | Sample            | Sample           | Spike         | MSD    | MSD       | Unit | D   | % Rec.   |        | RPD | Limit |
|------------------------------|-------------------|------------------|---------------|--------|-----------|------|-----|----------|--------|-----|-------|
|                              | Result            | Qualifier        | Added         | Result | Qualifier |      |     | % Rec    | Limits |     |       |
| trans-1,2-Dichloroethene     | <5.0              |                  | 50.0          | 52.7   |           | ug/L | 102 | 67 - 120 | 7      | 20  |       |
| 1,1-Dichloroethane           | 11                |                  | 50.0          | 62.9   |           | ug/L | 105 | 64 - 117 | 6      | 20  |       |
| cis-1,2-Dichloroethene       | 91                |                  | 50.0          | 152    | F         | ug/L | 123 | 66 - 111 | 0      | 20  |       |
| Methyl Ethyl Ketone          | <20               |                  | 50.0          | 56.5   |           | ug/L | 113 | 42 - 152 | 13     | 20  |       |
| Chloroform                   | <5.0              |                  | 50.0          | 58.9   | F         | ug/L | 118 | 71 - 116 | 4      | 20  |       |
| 1,1,1-Trichloroethane        | 26                |                  | 50.0          | 82.7   |           | ug/L | 113 | 66 - 128 | 3      | 20  |       |
| Carbon tetrachloride         | <5.0              |                  | 50.0          | 49.1   |           | ug/L | 98  | 58 - 132 | 5      | 20  |       |
| 1,2-Dichloroethane           | <5.0              |                  | 50.0          | 54.5   |           | ug/L | 109 | 69 - 115 | 2      | 20  |       |
| Trichloroethene              | 130               |                  | 50.0          | 179    |           | ug/L | 104 | 75 - 116 | 0      | 20  |       |
| 1,2-Dichloropropane          | <5.0              |                  | 50.0          | 52.2   |           | ug/L | 104 | 68 - 123 | 5      | 20  |       |
| Bromodichloromethane         | <5.0              |                  | 50.0          | 58.5   |           | ug/L | 117 | 73 - 120 | 6      | 20  |       |
| cis-1,3-Dichloropropene      | <5.0              |                  | 53.8          | 52.9   |           | ug/L | 98  | 65 - 114 | 8      | 20  |       |
| methyl isobutyl ketone       | <20               |                  | 50.0          | 51.1   |           | ug/L | 102 | 56 - 138 | 6      | 20  |       |
| Toluene                      | <5.0              |                  | 50.0          | 52.8   |           | ug/L | 106 | 76 - 121 | 10     | 20  |       |
| trans-1,3-Dichloropropene    | <5.0              |                  | 48.6          | 48.2   |           | ug/L | 99  | 60 - 119 | 9      | 20  |       |
| 1,1,2-Trichloroethane        | <5.0              |                  | 50.0          | 57.4   |           | ug/L | 115 | 62 - 137 | 8      | 20  |       |
| Tetrachloroethene            | 32                |                  | 50.0          | 80.1   |           | ug/L | 96  | 76 - 114 | 1      | 20  |       |
| 2-Hexanone                   | <20               |                  | 50.0          | 46.6   |           | ug/L | 93  | 55 - 138 | 2      | 20  |       |
| Dibromochloromethane         | <5.0              |                  | 50.0          | 55.0   |           | ug/L | 110 | 73 - 118 | 4      | 20  |       |
| Chlorobenzene                | <5.0              |                  | 50.0          | 49.9   |           | ug/L | 100 | 81 - 111 | 4      | 20  |       |
| Ethylbenzene                 | <5.0              |                  | 50.0          | 51.1   |           | ug/L | 102 | 79 - 114 | 5      | 20  |       |
| Styrene                      | <5.0              |                  | 50.0          | 50.4   |           | ug/L | 101 | 76 - 118 | 4      | 20  |       |
| Bromoform                    | <5.0              |                  | 50.0          | 53.7   |           | ug/L | 107 | 64 - 126 | 1      | 20  |       |
| 1,1,2,2-Tetrachloroethane    | <5.0              |                  | 50.0          | 59.3   |           | ug/L | 119 | 66 - 121 | 1      | 20  |       |
| Xylenes, Total               | <5.0              |                  | 150           | 158    |           | ug/L | 105 | 74 - 117 | 4      | 20  |       |
| <b>MSD MSD</b>               |                   |                  |               |        |           |      |     |          |        |     |       |
| <b>Surrogate</b>             | <b>% Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |        |           |      |     |          |        |     |       |
| 1,2-Dichloroethane-d4 (Surr) | 114               |                  | 77 - 124      |        |           |      |     |          |        |     |       |
| Toluene-d8 (Surr)            | 107               |                  | 80 - 121      |        |           |      |     |          |        |     |       |
| 4-Bromofluorobenzene (Surr)  | 103               |                  | 77 - 112      |        |           |      |     |          |        |     |       |
| Dibromofluoromethane         | 111               |                  | 78 - 119      |        |           |      |     |          |        |     |       |

**Lab Sample ID: MB 500-118330/3**

**Matrix: Water**

**Analysis Batch: 118330**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

| Analyte                  | MB     | MB        | RL  | MDL  | Unit | D | Prepared | Analyzed |       | Dil Fac |
|--------------------------|--------|-----------|-----|------|------|---|----------|----------|-------|---------|
|                          | Result | Qualifier |     |      |      |   |          | %        | Date  |         |
| Benzene                  | <5.0   |           | 5.0 | 0.12 | ug/L |   |          | 07/01/11 | 14:19 | 1       |
| Chloromethane            | <5.0   |           | 5.0 | 0.24 | ug/L |   |          | 07/01/11 | 14:19 | 1       |
| Vinyl chloride           | <2.0   |           | 2.0 | 0.13 | ug/L |   |          | 07/01/11 | 14:19 | 1       |
| Bromomethane             | <5.0   |           | 5.0 | 0.49 | ug/L |   |          | 07/01/11 | 14:19 | 1       |
| Chloroethane             | <5.0   |           | 5.0 | 0.33 | ug/L |   |          | 07/01/11 | 14:19 | 1       |
| 1,1-Dichloroethene       | <5.0   |           | 5.0 | 0.29 | ug/L |   |          | 07/01/11 | 14:19 | 1       |
| Carbon disulfide         | <5.0   |           | 5.0 | 0.44 | ug/L |   |          | 07/01/11 | 14:19 | 1       |
| Acetone                  | <20    |           | 20  | 1.9  | ug/L |   |          | 07/01/11 | 14:19 | 1       |
| Methylene Chloride       | <10    |           | 10  | 0.63 | ug/L |   |          | 07/01/11 | 14:19 | 1       |
| trans-1,2-Dichloroethene | <5.0   |           | 5.0 | 0.27 | ug/L |   |          | 07/01/11 | 14:19 | 1       |
| 1,1-Dichloroethane       | <5.0   |           | 5.0 | 0.24 | ug/L |   |          | 07/01/11 | 14:19 | 1       |
| cis-1,2-Dichloroethene   | <5.0   |           | 5.0 | 0.22 | ug/L |   |          | 07/01/11 | 14:19 | 1       |

# QC Sample Results

Client: Environmental Information Logistics (EIL)  
 Project/Site: Interstate Pollution Control Site

TestAmerica Job ID: 500-35654-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 500-118330/3**

**Matrix: Water**

**Analysis Batch: 118330**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**

| Analyte                   | MB   | MB | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|---------------------------|------|----|--------|-----------|-----|------|------|---|----------|----------------|---------|
|                           |      |    |        |           |     |      |      |   |          |                |         |
| Methyl Ethyl Ketone       | <20  |    |        |           | 20  | 1.0  | ug/L |   |          | 07/01/11 14:19 | 1       |
| Chloroform                | <5.0 |    |        |           | 5.0 | 0.25 | ug/L |   |          | 07/01/11 14:19 | 1       |
| 1,1,1-Trichloroethane     | <5.0 |    |        |           | 5.0 | 0.26 | ug/L |   |          | 07/01/11 14:19 | 1       |
| Carbon tetrachloride      | <5.0 |    |        |           | 5.0 | 0.28 | ug/L |   |          | 07/01/11 14:19 | 1       |
| 1,2-Dichloroethane        | <5.0 |    |        |           | 5.0 | 0.28 | ug/L |   |          | 07/01/11 14:19 | 1       |
| Trichloroethylene         | <5.0 |    |        |           | 5.0 | 0.18 | ug/L |   |          | 07/01/11 14:19 | 1       |
| 1,2-Dichloropropane       | <5.0 |    |        |           | 5.0 | 0.36 | ug/L |   |          | 07/01/11 14:19 | 1       |
| Bromodichloromethane      | <5.0 |    |        |           | 5.0 | 0.23 | ug/L |   |          | 07/01/11 14:19 | 1       |
| cis-1,3-Dichloropropene   | <5.0 |    |        |           | 5.0 | 0.28 | ug/L |   |          | 07/01/11 14:19 | 1       |
| methyl isobutyl ketone    | <20  |    |        |           | 20  | 0.79 | ug/L |   |          | 07/01/11 14:19 | 1       |
| Toluene                   | <5.0 |    |        |           | 5.0 | 0.15 | ug/L |   |          | 07/01/11 14:19 | 1       |
| trans-1,3-Dichloropropene | <5.0 |    |        |           | 5.0 | 0.35 | ug/L |   |          | 07/01/11 14:19 | 1       |
| 1,1,2-Trichloroethane     | <5.0 |    |        |           | 5.0 | 0.30 | ug/L |   |          | 07/01/11 14:19 | 1       |
| Tetrachloroethylene       | <5.0 |    |        |           | 5.0 | 0.22 | ug/L |   |          | 07/01/11 14:19 | 1       |
| 2-Hexanone                | <20  |    |        |           | 20  | 0.56 | ug/L |   |          | 07/01/11 14:19 | 1       |
| Dibromochloromethane      | <5.0 |    |        |           | 5.0 | 0.25 | ug/L |   |          | 07/01/11 14:19 | 1       |
| Chlorobenzene             | <5.0 |    |        |           | 5.0 | 0.24 | ug/L |   |          | 07/01/11 14:19 | 1       |
| Ethylbenzene              | <5.0 |    |        |           | 5.0 | 0.14 | ug/L |   |          | 07/01/11 14:19 | 1       |
| Styrene                   | <5.0 |    |        |           | 5.0 | 0.26 | ug/L |   |          | 07/01/11 14:19 | 1       |
| Bromoform                 | <5.0 |    |        |           | 5.0 | 0.45 | ug/L |   |          | 07/01/11 14:19 | 1       |
| 1,1,2,2-Tetrachloroethane | <5.0 |    |        |           | 5.0 | 0.35 | ug/L |   |          | 07/01/11 14:19 | 1       |
| Xylenes, Total            | <5.0 |    |        |           | 5.0 | 0.30 | ug/L |   |          | 07/01/11 14:19 | 1       |

**MB MB**

| Surrogate                    | % Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|------------|-----------|----------|----------|----------------|---------|
|                              |            |           |          |          |                |         |
| 1,2-Dichloroethane-d4 (Surr) | 121        |           | 77 - 124 |          | 07/01/11 14:19 | 1       |
| Toluene-d8 (Surr)            | 111        |           | 80 - 121 |          | 07/01/11 14:19 | 1       |
| 4-Bromofluorobenzene (Surr)  | 105        |           | 77 - 112 |          | 07/01/11 14:19 | 1       |
| Dibromofluoromethane         | 112        |           | 78 - 119 |          | 07/01/11 14:19 | 1       |

**Lab Sample ID: LCS 500-118330/4**

**Matrix: Water**

**Analysis Batch: 118330**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

| Analyte                  | Spike<br>Added | LCS    |           |      | D   | % Rec    | Limits |
|--------------------------|----------------|--------|-----------|------|-----|----------|--------|
|                          |                | Result | Qualifier | Unit |     |          |        |
| Benzene                  | 50.0           | 47.1   |           | ug/L | 94  | 74 - 113 |        |
| Chloromethane            | 50.0           | 60.3   |           | ug/L | 121 | 36 - 148 |        |
| Vinyl chloride           | 50.0           | 59.1   |           | ug/L | 118 | 47 - 138 |        |
| Bromomethane             | 50.0           | 65.5   |           | ug/L | 131 | 46 - 155 |        |
| Chloroethane             | 50.0           | 63.1   |           | ug/L | 126 | 54 - 149 |        |
| 1,1-Dichloroethene       | 50.0           | 37.1   |           | ug/L | 74  | 60 - 126 |        |
| Carbon disulfide         | 50.0           | 29.5   |           | ug/L | 59  | 36 - 110 |        |
| Acetone                  | 50.0           | 48.2   |           | ug/L | 96  | 43 - 153 |        |
| Methylene Chloride       | 50.0           | 42.4   |           | ug/L | 85  | 65 - 125 |        |
| trans-1,2-Dichloroethene | 50.0           | 44.3   |           | ug/L | 89  | 67 - 120 |        |
| 1,1-Dichloroethane       | 50.0           | 45.4   |           | ug/L | 91  | 64 - 117 |        |
| cis-1,2-Dichloroethene   | 50.0           | 47.9   |           | ug/L | 96  | 66 - 111 |        |
| Methyl Ethyl Ketone      | 50.0           | 51.3   |           | ug/L | 103 | 42 - 152 |        |
| Chloroform               | 50.0           | 51.4   |           | ug/L | 103 | 71 - 116 |        |
| 1,1,1-Trichloroethane    | 50.0           | 49.0   |           | ug/L | 98  | 66 - 128 |        |

# QC Sample Results

Client: Environmental Information Logistics (EIL)  
 Project/Site: Interstate Pollution Control Site

TestAmerica Job ID: 500-35654-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 500-118330/4**

**Matrix: Water**

**Analysis Batch: 118330**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**

| Analyte                   | Spike<br>Added | LCS    |           | Unit | D   | % Rec.   | Limits |
|---------------------------|----------------|--------|-----------|------|-----|----------|--------|
|                           |                | Result | Qualifier |      |     |          |        |
| Carbon tetrachloride      | 50.0           | 43.7   |           | ug/L | 87  | 58 - 132 |        |
| 1,2-Dichloroethane        | 50.0           | 49.2   |           | ug/L | 98  | 69 - 115 |        |
| Trichloroethene           | 50.0           | 44.1   |           | ug/L | 88  | 75 - 116 |        |
| 1,2-Dichloropropane       | 50.0           | 46.6   |           | ug/L | 93  | 68 - 123 |        |
| Bromodichloromethane      | 50.0           | 51.1   |           | ug/L | 102 | 73 - 120 |        |
| cis-1,3-Dichloropropene   | 53.8           | 46.9   |           | ug/L | 87  | 65 - 114 |        |
| methyl isobutyl ketone    | 50.0           | 46.7   |           | ug/L | 93  | 56 - 138 |        |
| Toluene                   | 50.0           | 47.2   |           | ug/L | 94  | 76 - 121 |        |
| trans-1,3-Dichloropropene | 48.6           | 43.6   |           | ug/L | 90  | 60 - 119 |        |
| 1,1,2-Trichloroethane     | 50.0           | 50.0   |           | ug/L | 100 | 62 - 137 |        |
| Tetrachloroethene         | 50.0           | 42.9   |           | ug/L | 86  | 76 - 114 |        |
| 2-Hexanone                | 50.0           | 43.0   |           | ug/L | 86  | 55 - 138 |        |
| Dibromochloromethane      | 50.0           | 47.6   |           | ug/L | 95  | 73 - 118 |        |
| Chlorobenzene             | 50.0           | 45.1   |           | ug/L | 90  | 81 - 111 |        |
| Ethylbenzene              | 50.0           | 46.0   |           | ug/L | 92  | 79 - 114 |        |
| Styrene                   | 50.0           | 45.7   |           | ug/L | 91  | 76 - 118 |        |
| Bromoform                 | 50.0           | 46.1   |           | ug/L | 92  | 64 - 126 |        |
| 1,1,2,2-Tetrachloroethane | 50.0           | 51.1   |           | ug/L | 102 | 66 - 121 |        |
| Xylenes, Total            | 150            | 144    |           | ug/L | 96  | 74 - 117 |        |

| Surrogate                    | LCS        |           | Limits   |
|------------------------------|------------|-----------|----------|
|                              | % Recovery | Qualifier |          |
| 1,2-Dichloroethane-d4 (Surf) | 114        |           | 77 - 124 |
| Toluene-d8 (Surf)            | 106        |           | 80 - 121 |
| 4-Bromofluorobenzene (Surf)  | 106        |           | 77 - 112 |
| Dibromofluoromethane         | 110        |           | 78 - 119 |

## Certification Summary

Client: Environmental Information Logistics (EIL)  
 Project/Site: Interstate Pollution Control Site

TestAmerica Job ID: 500-35654-1

| Laboratory          | Authority      | Program             | EPA Region | Certification ID |
|---------------------|----------------|---------------------|------------|------------------|
| TestAmerica Chicago | ACCLASS        | DoD ELAP            |            | ADE-1429         |
| TestAmerica Chicago | ACCLASS        | ISO/IEC 17025       |            | AT-1428          |
| TestAmerica Chicago | Alabama        | State Program       | 4          | 40461            |
| TestAmerica Chicago | California     | NELAC               | 9          | 01132CA          |
| TestAmerica Chicago | Florida        | NELAC               | 4          | E871072          |
| TestAmerica Chicago | Georgia        | Georgia EPD         | 4          | N/A              |
| TestAmerica Chicago | Georgia        | State Program       | 4          | 939              |
| TestAmerica Chicago | Hawaii         | State Program       | 9          | N/A              |
| TestAmerica Chicago | Illinois       | NELAC               | 5          | 100201           |
| TestAmerica Chicago | Indiana        | State Program       | 5          | C-IL-02          |
| TestAmerica Chicago | Iowa           | State Program       | 7          | 82               |
| TestAmerica Chicago | Kansas         | NELAC               | 7          | E-10161          |
| TestAmerica Chicago | Kentucky       | Kentucky UST        | 4          | 66               |
| TestAmerica Chicago | Kentucky       | State Program       | 4          | 90023            |
| TestAmerica Chicago | Louisiana      | NELAC               | 6          | 30720            |
| TestAmerica Chicago | Massachusetts  | State Program       | 1          | M-IL035          |
| TestAmerica Chicago | Mississippi    | State Program       | 4          | N/A              |
| TestAmerica Chicago | North Carolina | North Carolina DENR | 4          | 291              |
| TestAmerica Chicago | Oklahoma       | State Program       | 6          | 8908             |
| TestAmerica Chicago | South Carolina | State Program       | 4          | 77001            |
| TestAmerica Chicago | Texas          | NELAC               | 6          | T104704252-09-TX |
| TestAmerica Chicago | USDA           | USDA                |            | P330-09-00027    |
| TestAmerica Chicago | Virginia       | NELAC Secondary AB  | 3          | 460142           |
| TestAmerica Chicago | Wisconsin      | State Program       | 5          | 999580010        |
| TestAmerica Chicago | Wyoming        | State Program       | 8          | 8TMS-Q           |

Accreditation may not be offered or required for all methods and analytes reported in this package . Please contact your project manager for the laboratory's current list of certified methods and analytes.

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484  
Phone: 708.534.5200 Fax: 708.534.5211

(optional)  
Report To: Mike Hirt  
Contact:  
Company: EIL  
Address:  
Address:  
Phone: 630 834 8847  
Fax:  
E-Mail:

(optional)  
Bill To:  
Contact:  
Company:  
Address:  
Address:  
Phone:  
Fax:  
PO#/Reference#

## Chain of Custody Record

Lab Job #: 500 - 35654

Chain of Custody Number:

Page \_\_\_\_\_ of \_\_\_\_\_

Temperature °C of Cooler: 3.0

| Client       |       |                | Client Project #       |      | Preservative    |        |     |  |  |  |  |  |  |  | Preservative Key |  |                           |  |
|--------------|-------|----------------|------------------------|------|-----------------|--------|-----|--|--|--|--|--|--|--|------------------|--|---------------------------|--|
| Project Name |       |                | Project Location/State |      | Parameter       |        |     |  |  |  |  |  |  |  |                  |  |                           |  |
| Lab ID       | NSMSC | Sample ID      | Sampling               |      | # of Containers | Matrix | Loc |  |  |  |  |  |  |  |                  |  | Comments                  |  |
| 1            |       | ATC IPC GW Mw1 | Date                   | Time | 3               | GW     | X   |  |  |  |  |  |  |  |                  |  |                           |  |
| 2            |       | IPCGW Mw2      |                        | 1334 | 1               |        |     |  |  |  |  |  |  |  |                  |  |                           |  |
| 3            |       | IPCGW Mw3      |                        | 1310 | 1               |        |     |  |  |  |  |  |  |  |                  |  |                           |  |
| 4            |       | IPCGW Mw4      |                        | 1250 |                 |        |     |  |  |  |  |  |  |  |                  |  |                           |  |
| 5            |       | IPCGW Mw5      |                        | 1225 |                 |        |     |  |  |  |  |  |  |  |                  |  |                           |  |
| 6            | X     | IPCGW Mw6      |                        | 1158 | 9               |        |     |  |  |  |  |  |  |  |                  |  |                           |  |
| 7            |       | IPCGW Mw7      |                        | 1010 | 3               |        |     |  |  |  |  |  |  |  |                  |  |                           |  |
| 8            |       | IPCGW Mw8      |                        | 936  | 1               |        |     |  |  |  |  |  |  |  |                  |  |                           |  |
| 9            |       | IPCGW Mw9      |                        | 952  | 1               |        |     |  |  |  |  |  |  |  |                  |  |                           |  |
| 10           |       | IPCFB          |                        | 1400 |                 |        |     |  |  |  |  |  |  |  |                  |  | Not added in login sample |  |

### Turnaround Time Required (Business Days)

1 Day  2 Days  5 Days  7 Days  10 Days  15 Days  Other \_\_\_\_\_ Requested Due Date \_\_\_\_\_

### Sample Disposal

Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months (A fee may be assessed if samples are retained longer than 1 month)

|                 |         |      |      |             |         |      |      |                |
|-----------------|---------|------|------|-------------|---------|------|------|----------------|
| Relinquished By | Company | Date | Time | Received By | Company | Date | Time | Lab Courier    |
| Relinquished By | Company | Date | Time | Received By | Company | Date | Time | Shipped        |
| Relinquished By | Company | Date | Time | Received By | Company | Date | Time | Hand Delivered |

Matrix Key  
WW - Wastewater SE - Sediment  
W - Water SO - Soil  
S - Soil L - Leachate  
SL - Sludge WI - Wipe  
MS - Miscellaneous DW - Drinking Water  
OI - Oil O - Other  
A - Air

### Client Comments

### Lab Comments

## Login Sample Receipt Checklist

Client: Environmental Information Logistics (EIL)

Job Number: 500-35654-1

**Login Number:** 35654

**List Source:** TestAmerica Chicago

**List Number:** 1

**Creator:** Kelsey, Shawn M

| Question   | Answer | Comment |
|--|--------|---------|
| Radioactivity either was not measured or, if measured, is at or below background | True   |         |
| The cooler's custody seal, if present, is intact.                                | True   |         |
| The cooler or samples do not appear to have been compromised or tampered with.   | True   |         |
| Samples were received on ice.  | True   |         |
| Cooler Temperature is acceptable.  | True   |         |
| Cooler Temperature is recorded.  | True   |         |
| COC is present.  | True   |         |
| COC is filled out in ink and legible.  | True   |         |
| COC is filled out with all pertinent information.                                | True   |         |
| Is the Field Sampler's name present on COC?                                      | True   |         |
| There are no discrepancies between the sample IDs on the containers and the COC. | True   |         |
| Samples are received within Holding Time.  | True   |         |
| Sample containers have legible labels.   | True   |         |
| Containers are not broken or leaking.  | True   |         |
| Sample collection date/times are provided.                                       | True   |         |
| Appropriate sample containers are used.  | True   |         |
| Sample bottles are completely filled.  | True   |         |
| Sample Preservation Verified.  | True   |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True   |         |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.     | True   |         |
| Multiphasic samples are not present.   | True   |         |
| Samples do not require splitting or compositing.                                 | True   |         |
| Residual Chlorine Checked.   | True   |         |

December 2008 Through June 2011  
 Data Summary  
 IPC/Roto-Rooter Site

| Well | Location     | Parameter              | Units | Interwell<br>Upper<br>Limit<br>(95%) | Intrawell<br>Upper<br>Limit<br>(99%) | Dec-08 |      | Mar-09 |      | Jun-09 |      | Sep-09 |      | Dec-09 |      |
|------|--------------|------------------------|-------|--------------------------------------|--------------------------------------|--------|------|--------|------|--------|------|--------|------|--------|------|
|      |              |                        |       |                                      |                                      | Result | Qual |
| MW1  | Downgradient | 1,1,1-Trichloroethane  | ug/L  | 52.5                                 | 25.1                                 | 9.4    |      | NA     |      | 5      | U    | NA     |      | 11     |      |
| MW1  | Downgradient | 1,1-Dichloroethane     | ug/L  | 14                                   | 24.0                                 | 13     |      | NA     |      | 14     |      | NA     |      | 14     |      |
| MW1  | Downgradient | 1,1-Dichloroethene     | ug/L  | 32.9                                 | 21.1                                 | 14     |      | NA     |      | 9.5    |      | NA     |      | 12     |      |
| MW1  | Downgradient | cis-1,2-Dichloroethene | ug/L  | 250                                  | 295                                  | 230    |      | NA     |      | 170    |      | NA     |      | 160    |      |
| MW1  | Downgradient | Tetrachloroethene      | ug/L  | 45.8                                 | 5.6                                  | 5      | U    | NA     |      | 5      | U    | NA     |      | 5      | U    |
| MW1  | Downgradient | Trichloroethene        | ug/L  | 340                                  | 324                                  | 45     |      | NA     |      | 20     |      | NA     |      | 52     |      |
| MW1  | Downgradient | Vinyl Chloride         | ug/L  | 48                                   | 10.4                                 | 7.3    |      | NA     |      | 6.9    |      | NA     |      | 10     |      |
| MW2  | Downgradient | 1,1,1-Trichloroethane  | ug/L  | 52.5                                 | 39.3                                 | 21     |      | NA     |      | 15     |      | NA     |      | 25     |      |
| MW2  | Downgradient | 1,1-Dichloroethane     | ug/L  | 14                                   | 5.4                                  | 5      | U    | NA     |      | 5      | U    | NA     |      | 5      | U    |
| MW2  | Downgradient | 1,1-Dichloroethene     | ug/L  | 32.9                                 | 30.6                                 | 17     |      | NA     |      | 13     |      | NA     |      | 22     |      |
| MW2  | Downgradient | cis-1,2-Dichloroethene | ug/L  | 250                                  | 131                                  | 52     |      | NA     |      | 37     |      | NA     |      | 92     |      |
| MW2  | Downgradient | Tetrachloroethene      | ug/L  | 45.8                                 | 23.1                                 | 23     |      | NA     |      | 17     |      | NA     |      | 34     |      |
| MW2  | Downgradient | Trichloroethene        | ug/L  | 340                                  | 293                                  | 230    |      | NA     |      | 150    |      | NA     |      | 210    |      |
| MW2  | Downgradient | Vinyl Chloride         | ug/L  | 48                                   | 10.0                                 | 4.5    |      | NA     |      | 2      | U    | NA     |      | 2      | U    |
| MW3  | Upgradient   | 1,1,1-Trichloroethane  | ug/L  | 52.5                                 | 45.5                                 | 22     |      | NA     |      | 21     |      | NA     |      | 27     |      |
| MW3  | Upgradient   | 1,1-Dichloroethane     | ug/L  | 14                                   | 11.0                                 | 5      | U    | NA     |      | 11     |      | NA     |      | 5      | U    |
| MW3  | Upgradient   | 1,1-Dichloroethene     | ug/L  | 32.9                                 | 36.3                                 | 17     |      | NA     |      | 17     |      | NA     |      | 21     |      |
| MW3  | Upgradient   | cis-1,2-Dichloroethene | ug/L  | 250                                  | 126                                  | 50     |      | NA     |      | 74     |      | NA     |      | 58     |      |
| MW3  | Upgradient   | Tetrachloroethene      | ug/L  | 45.8                                 | 39.7                                 | 25     |      | NA     |      | 28     |      | NA     |      | 38     |      |
| MW3  | Upgradient   | Trichloroethene        | ug/L  | 340                                  | 310                                  | 230    |      | NA     |      | 170    |      | NA     |      | 240    |      |
| MW3  | Upgradient   | Vinyl Chloride         | ug/L  | 48                                   | 2.0                                  | 2      | U    | NA     |      | 2      | U    | NA     |      | 2      | U    |
| MW4  | Downgradient | 1,1,1-Trichloroethane  | ug/L  | 52.5                                 | 47.2                                 | 21     |      | NA     |      | 17     |      | NA     |      | 18     |      |
| MW4  | Downgradient | 1,1-Dichloroethane     | ug/L  | 14                                   | 69.9                                 | 13     |      | NA     |      | 27     |      | NA     |      | 22     |      |
| MW4  | Downgradient | 1,1-Dichloroethene     | ug/L  | 32.9                                 | 33.0                                 | 14     |      | NA     |      | 11     |      | NA     |      | 9.8    |      |
| MW4  | Downgradient | cis-1,2-Dichloroethene | ug/L  | 250                                  | 461                                  | 190    |      | NA     |      | 180    |      | NA     |      | 160    |      |
| MW4  | Downgradient | Tetrachloroethene      | ug/L  | 45.8                                 | 5.0                                  | 5      | U    | NA     |      | 5      | U    | NA     |      | 5      | U    |
| MW4  | Downgradient | Trichloroethene        | ug/L  | 340                                  | 5.0                                  | 5      | U    | NA     |      | 5      | U    | NA     |      | 5      | U    |
| MW4  | Downgradient | Vinyl Chloride         | ug/L  | 48                                   | 137                                  | 65     |      | NA     |      | 74     |      | NA     |      | 67     |      |
| MW5  | Upgradient   | 1,1,1-Trichloroethane  | ug/L  | 52.5                                 | 78.5                                 | 35     |      | NA     |      | 32     |      | NA     |      | 39     |      |
| MW5  | Upgradient   | 1,1-Dichloroethane     | ug/L  | 14                                   | 25.8                                 | 8.8    |      | NA     |      | 6      |      | NA     |      | 6.6    |      |
| MW5  | Upgradient   | 1,1-Dichloroethene     | ug/L  | 32.9                                 | 34.0                                 | 27     |      | NA     |      | 23     |      | NA     |      | 26     |      |
| MW5  | Upgradient   | cis-1,2-Dichloroethene | ug/L  | 250                                  | 519                                  | 250    |      | NA     |      | 180    |      | NA     |      | 140    |      |
| MW5  | Upgradient   | Tetrachloroethene      | ug/L  | 45.8                                 | 75.7                                 | 29     |      | NA     |      | 34     |      | NA     |      | 42     |      |
| MW5  | Upgradient   | Trichloroethene        | ug/L  | 340                                  | 390                                  | 200    |      | NA     |      | 180    |      | NA     |      | 230    |      |
| MW5  | Upgradient   | Vinyl Chloride         | ug/L  | 48                                   | 15.0                                 | 7.7    |      | NA     |      | 8.8    |      | NA     |      | 7.2    |      |

December 2008 Through June 2011  
 Data Summary  
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| Well | Location     | Parameter              | Units | Interwell<br>Upper<br>Limit<br>(95%) | Intrawell<br>Upper<br>Limit<br>(99%) | Dec-08 |      | Mar-09 |      | Jun-09 |      | Sep-09 |      | Dec-09 |      |
|------|--------------|------------------------|-------|--------------------------------------|--------------------------------------|--------|------|--------|------|--------|------|--------|------|--------|------|
|      |              |                        |       |                                      |                                      | Result | Qual |
| MW6  | Upgradient   | 1,1,1-Trichloroethane  | ug/L  | 52.5                                 | 71.3                                 | 22     |      | NA     |      | 31     |      | NA     |      | 37     |      |
| MW6  | Upgradient   | 1,1-Dichloroethane     | ug/L  | 14                                   | 42.1                                 | 6.8    |      | NA     |      | 5      | U    | NA     |      | 6.7    |      |
| MW6  | Upgradient   | 1,1-Dichloroethene     | ug/L  | 32.9                                 | 36.5                                 | 15     |      | NA     |      | 22     |      | NA     |      | 24     |      |
| MW6  | Upgradient   | cis-1,2-Dichloroethene | ug/L  | 250                                  | 352                                  | 200    |      | NA     |      | 210    |      | NA     |      | 190    |      |
| MW6  | Upgradient   | Tetrachloroethene      | ug/L  | 45.8                                 | 47.6                                 | 6.1    |      | NA     |      | 15     |      | NA     |      | 5      | U    |
| MW6  | Upgradient   | Trichloroethene        | ug/L  | 340                                  | 220                                  | 32     |      | NA     |      | 73     |      | NA     |      | 150    |      |
| MW6  | Upgradient   | Vinyl Chloride         | ug/L  | 48                                   | 104                                  | 24     |      | NA     |      | 25     |      | NA     |      | 18     |      |
| MW8  | Downgradient | 1,1,1-Trichloroethane  | ug/L  | 52.5                                 | 30.2                                 | NA     |      | 5      | U    | 5      | U    | 6.1    |      | 11     |      |
| MW8  | Downgradient | 1,1-Dichloroethane     | ug/L  | 14                                   | 34.0                                 | NA     |      | 5      | U    | 5      | U    | 6.8    |      | 12     |      |
| MW8  | Downgradient | 1,1-Dichloroethene     | ug/L  | 32.9                                 | 14.1                                 | NA     |      | 5      | U    | 5      | U    | 5.1    |      | 7.1    |      |
| MW8  | Downgradient | cis-1,2-Dichloroethene | ug/L  | 250                                  | 78.2                                 | NA     |      | 11     |      | 5      | U    | 18     |      | 29     |      |
| MW8  | Downgradient | Tetrachloroethene      | ug/L  | 45.8                                 | 5.0                                  | NA     |      | 5      | U    | 5      | U    | 5      | U    | 5      | U    |
| MW8  | Downgradient | Trichloroethene        | ug/L  | 340                                  | 171                                  | NA     |      | 27     |      | 14     |      | 36     |      | 75     |      |
| MW8  | Downgradient | Vinyl Chloride         | ug/L  | 48                                   | 2.0                                  | NA     |      | 2      | U    | 2      | U    | 2      | U    | 2      | U    |
| MW9  | Downgradient | 1,1,1-Trichloroethane  | ug/L  | 52.5                                 | 5.0                                  | NA     |      | 5      | U    | 5      | U    | 5      | U    | 5      | U    |
| MW9  | Downgradient | 1,1-Dichloroethane     | ug/L  | 14                                   | 5.0                                  | NA     |      | 5      | U    | 5      | U    | 5      | U    | 5      | U    |
| MW9  | Downgradient | 1,1-Dichloroethene     | ug/L  | 32.9                                 | 5.0                                  | NA     |      | 5      | U    | 5      | U    | 5      | U    | 5      | U    |
| MW9  | Downgradient | cis-1,2-Dichloroethene | ug/L  | 250                                  | 5.0                                  | NA     |      | 5      | U    | 5      | U    | 5      | U    | 5      | U    |
| MW9  | Downgradient | Tetrachloroethene      | ug/L  | 45.8                                 | 5.0                                  | NA     |      | 5      | U    | 5      | U    | 5      | U    | 5      | U    |
| MW9  | Downgradient | Trichloroethene        | ug/L  | 340                                  | 5.0                                  | NA     |      | 5      | U    | 5      | U    | 5      | U    | 5      | U    |
| MW9  | Downgradient | Vinyl Chloride         | ug/L  | 48                                   | 2.0                                  | NA     |      | 2      | U    | 2      | U    | 2      | U    | 2      | U    |

All data reported in ug/L.

NA - Not Applicable

Interwell and Intrawell limits calculated using background data collected: Sep. 2007, Dec. 2007, Mar. 2008, and Jun. 2008. **Except for the following:**

Interwell limits for 1,1-dichloroethane; tetrachloroethene; and trichloroethene collected: Dec. 2007, Jun. 2008, Dec. 2008, and Jun. 2009

Intrawell limits for 1,1-dichloroethane (MW3); tetrachloroethene and trichloroethene (MW6) collected: Dec. 2007, Jun. 2008, Dec. 2008, and Jun. 2009.

Intrawell limits for all parameters (MW8 and MW9) collected: Mar. 2009, Jun. 2009, Sep. 2009, and Dec. 2009.

December 2008 Through June 2011  
 Data Summary  
 IPC/Roto-Rooter Site

| Well | Location     | Parameter              | Units | Interwell         | Intrawell         | Jun-10 |      |
|------|--------------|------------------------|-------|-------------------|-------------------|--------|------|
|      |              |                        |       | Upper Limit (95%) | Upper Limit (99%) | Result | Qual |
| MW1  | Downgradient | 1,1,1-Trichloroethane  | ug/L  | 52.5              | 25.1              | 5      | U    |
| MW1  | Downgradient | 1,1-Dichloroethane     | ug/L  | 14                | 24.0              | 16     |      |
| MW1  | Downgradient | 1,1-Dichloroethene     | ug/L  | 32.9              | 21.1              | 11     |      |
| MW1  | Downgradient | cis-1,2-Dichloroethene | ug/L  | 250               | 295               | 130    |      |
| MW1  | Downgradient | Tetrachloroethene      | ug/L  | 45.8              | 5.6               | 5      | U    |
| MW1  | Downgradient | Trichloroethene        | ug/L  | 340               | 324               | 20     |      |
| MW1  | Downgradient | Vinyl Chloride         | ug/L  | 48                | 10.4              | 16     |      |
| MW2  | Downgradient | 1,1,1-Trichloroethane  | ug/L  | 52.5              | 39.3              | 22     |      |
| MW2  | Downgradient | 1,1-Dichloroethane     | ug/L  | 14                | 5.4               | 5      | U    |
| MW2  | Downgradient | 1,1-Dichloroethene     | ug/L  | 32.9              | 30.6              | 23     |      |
| MW2  | Downgradient | cis-1,2-Dichloroethene | ug/L  | 250               | 131               | 58     |      |
| MW2  | Downgradient | Tetrachloroethene      | ug/L  | 45.8              | 23.1              | 33     |      |
| MW2  | Downgradient | Trichloroethene        | ug/L  | 340               | 293               | 200    |      |
| MW2  | Downgradient | Vinyl Chloride         | ug/L  | 48                | 10.0              | 2      | U    |
| MW3  | Upgradient   | 1,1,1-Trichloroethane  | ug/L  | 52.5              | 45.5              | 24     |      |
| MW3  | Upgradient   | 1,1-Dichloroethane     | ug/L  | 14                | 11.0              | 5.2    |      |
| MW3  | Upgradient   | 1,1-Dichloroethene     | ug/L  | 32.9              | 36.3              | 23     |      |
| MW3  | Upgradient   | cis-1,2-Dichloroethene | ug/L  | 250               | 126               | 56     |      |
| MW3  | Upgradient   | Tetrachloroethene      | ug/L  | 45.8              | 39.7              | 40     |      |
| MW3  | Upgradient   | Trichloroethene        | ug/L  | 340               | 310               | 210    |      |
| MW3  | Upgradient   | Vinyl Chloride         | ug/L  | 48                | 2.0               | 2      | U    |
| MW4  | Downgradient | 1,1,1-Trichloroethane  | ug/L  | 52.5              | 47.2              | 17     |      |
| MW4  | Downgradient | 1,1-Dichloroethane     | ug/L  | 14                | 69.9              | 20     |      |
| MW4  | Downgradient | 1,1-Dichloroethene     | ug/L  | 32.9              | 33.0              | 11     |      |
| MW4  | Downgradient | cis-1,2-Dichloroethene | ug/L  | 250               | 461               | 150    |      |
| MW4  | Downgradient | Tetrachloroethene      | ug/L  | 45.8              | 5.0               | 5      | U    |
| MW4  | Downgradient | Trichloroethene        | ug/L  | 340               | 5.0               | 5      | U    |
| MW4  | Downgradient | Vinyl Chloride         | ug/L  | 48                | 137               | 76     |      |
| MW5  | Upgradient   | 1,1,1-Trichloroethane  | ug/L  | 52.5              | 78.5              | 27     |      |
| MW5  | Upgradient   | 1,1-Dichloroethane     | ug/L  | 14                | 25.8              | 5.5    |      |
| MW5  | Upgradient   | 1,1-Dichloroethene     | ug/L  | 32.9              | 34.0              | 23     |      |
| MW5  | Upgradient   | cis-1,2-Dichloroethene | ug/L  | 250               | 519               | 120    |      |
| MW5  | Upgradient   | Tetrachloroethene      | ug/L  | 45.8              | 75.7              | 37     |      |
| MW5  | Upgradient   | Trichloroethene        | ug/L  | 340               | 390               | 160    |      |
| MW5  | Upgradient   | Vinyl Chloride         | ug/L  | 48                | 15.0              | 5.7    |      |

December 2008 Through June 2011  
 Data Summary  
 IPC/Roto-Rooter Site

| Well | Location     | Parameter              | Units | Interwell         | Intrawell         | Jun-10 |      |
|------|--------------|------------------------|-------|-------------------|-------------------|--------|------|
|      |              |                        |       | Upper Limit (95%) | Upper Limit (99%) | Result | Qual |
| MW6  | Upgradient   | 1,1,1-Trichloroethane  | ug/L  | 52.5              | 71.3              | 31     |      |
| MW6  | Upgradient   | 1,1-Dichloroethane     | ug/L  | 14                | 42.1              | 5.9    |      |
| MW6  | Upgradient   | 1,1-Dichloroethene     | ug/L  | 32.9              | 36.5              | 25     |      |
| MW6  | Upgradient   | cis-1,2-Dichloroethene | ug/L  | 250               | 352               | 180    |      |
| MW6  | Upgradient   | Tetrachloroethene      | ug/L  | 45.8              | 47.6              | 24     |      |
| MW6  | Upgradient   | Trichloroethene        | ug/L  | 340               | 220               | 95     |      |
| MW6  | Upgradient   | Vinyl Chloride         | ug/L  | 48                | 104               | 25     |      |
| MW8  | Downgradient | 1,1,1-Trichloroethane  | ug/L  | 52.5              | 30.2              | 5      | U    |
| MW8  | Downgradient | 1,1-Dichloroethane     | ug/L  | 14                | 34.0              | 5      | U    |
| MW8  | Downgradient | 1,1-Dichloroethene     | ug/L  | 32.9              | 14.1              | 5      | U    |
| MW8  | Downgradient | cis-1,2-Dichloroethene | ug/L  | 250               | 78.2              | 10     |      |
| MW8  | Downgradient | Tetrachloroethene      | ug/L  | 45.8              | 5.0               | 5      | U    |
| MW8  | Downgradient | Trichloroethene        | ug/L  | 340               | 171               | 29     |      |
| MW8  | Downgradient | Vinyl Chloride         | ug/L  | 48                | 2.0               | 2      | U    |
| MW9  | Downgradient | 1,1,1-Trichloroethane  | ug/L  | 52.5              | 5.0               | 5      | U    |
| MW9  | Downgradient | 1,1-Dichloroethane     | ug/L  | 14                | 5.0               | 5      | U    |
| MW9  | Downgradient | 1,1-Dichloroethene     | ug/L  | 32.9              | 5.0               | 5      | U    |
| MW9  | Downgradient | cis-1,2-Dichloroethene | ug/L  | 250               | 5.0               | 5      | U    |
| MW9  | Downgradient | Tetrachloroethene      | ug/L  | 45.8              | 5.0               | 5      | U    |
| MW9  | Downgradient | Trichloroethene        | ug/L  | 340               | 5.0               | 5      | U    |
| MW9  | Downgradient | Vinyl Chloride         | ug/L  | 48                | 2.0               | 2      | U    |

All data reported in ug/L.

NA - Not Applicable

Interwell and Intrawell limits calculated using background data collected: Sep. 2007, Dec

Interwell limits for 1,1-dichloroethane; tetrachloroethene; and trichloroethene coll

Intrawell limits for 1,1-dichloroethane (MW3); tetrachloroethene and trichloroeth

Intrawell limits for all parameters (MW8 and MW9) collected: Mar. 2009, Jun. 20

December 2008 Through June 2011  
 Data Summary  
 IPC/Roto-Rooter Site

| Well | Location     | Parameter              | Units | Interwell         | Intrawell         | Jul-10    |      | Dec-10    |      | Jun-11    |      | STEP-Defined Statistical Exceedance? |
|------|--------------|------------------------|-------|-------------------|-------------------|-----------|------|-----------|------|-----------|------|--------------------------------------|
|      |              |                        |       | Upper Limit (95%) | Upper Limit (99%) | Result    | Qual | Result    | Qual | Result    | Qual |                                      |
| MW1  | Downgradient | 1,1,1-Trichloroethane  | ug/L  | 52.5              | 25.1              | NA        |      | 5         | U    | 5         | U    | No                                   |
| MW1  | Downgradient | 1,1-Dichloroethane     | ug/L  | <b>14</b>         | 24.0              | <b>17</b> |      | 14        |      | <b>15</b> |      | <b>Yes</b>                           |
| MW1  | Downgradient | 1,1-Dichloroethene     | ug/L  | 32.9              | 21.1              | NA        |      | 9.3       |      | 12        |      | No                                   |
| MW1  | Downgradient | cis-1,2-Dichloroethene | ug/L  | 250               | 295               | NA        |      | 130       |      | 140       |      | No                                   |
| MW1  | Downgradient | Tetrachloroethene      | ug/L  | 45.8              | 5.6               | NA        |      | 5         | U    | 5         | U    | No                                   |
| MW1  | Downgradient | Trichloroethene        | ug/L  | 340               | 324               | NA        |      | 13        |      | 9.1       |      | No                                   |
| MW1  | Downgradient | Vinyl Chloride         | ug/L  | 48                | <b>10.4</b>       | NA        |      | <b>16</b> |      | <b>19</b> |      | No                                   |
| MW2  | Downgradient | 1,1,1-Trichloroethane  | ug/L  | 52.5              | 39.3              | NA        |      | 21        |      | 21        |      | No                                   |
| MW2  | Downgradient | 1,1-Dichloroethane     | ug/L  | 14                | 5.4               | NA        |      | 5         | U    | 5         | U    | No                                   |
| MW2  | Downgradient | 1,1-Dichloroethene     | ug/L  | 32.9              | 30.6              | NA        |      | 22        |      | 22        |      | No                                   |
| MW2  | Downgradient | cis-1,2-Dichloroethene | ug/L  | 250               | 131               | NA        |      | 56        |      | 59        |      | No                                   |
| MW2  | Downgradient | Tetrachloroethene      | ug/L  | 45.8              | <b>23.1</b>       | NA        |      | <b>38</b> |      | <b>31</b> |      | No                                   |
| MW2  | Downgradient | Trichloroethene        | ug/L  | 340               | 293               | NA        |      | 200       |      | 150       |      | No                                   |
| MW2  | Downgradient | Vinyl Chloride         | ug/L  | 48                | 10.0              | NA        |      | 2         | U    | 2         | U    | No                                   |
| MW3  | Upgradient   | 1,1,1-Trichloroethane  | ug/L  | 52.5              | 45.5              | NA        |      | 22        |      | 24        |      | No                                   |
| MW3  | Upgradient   | 1,1-Dichloroethane     | ug/L  | 14                | 11.0              | NA        |      | 5         | U    | 5.7       |      | No                                   |
| MW3  | Upgradient   | 1,1-Dichloroethene     | ug/L  | 32.9              | 36.3              | NA        |      | 20        |      | 22        |      | No                                   |
| MW3  | Upgradient   | cis-1,2-Dichloroethene | ug/L  | 250               | 126               | NA        |      | 46        |      | 65        |      | No                                   |
| MW3  | Upgradient   | Tetrachloroethene      | ug/L  | 45.8              | <b>39.7</b>       | NA        |      | 37        |      | <b>43</b> |      | <b>Yes</b>                           |
| MW3  | Upgradient   | Trichloroethene        | ug/L  | 340               | 310               | NA        |      | 180       |      | 180       |      | No                                   |
| MW3  | Upgradient   | Vinyl Chloride         | ug/L  | 48                | 2.0               | NA        |      | 2         | U    | 2         | U    | No                                   |
| MW4  | Downgradient | 1,1,1-Trichloroethane  | ug/L  | 52.5              | 47.2              | NA        |      | 13        |      | 13        |      | No                                   |
| MW4  | Downgradient | 1,1-Dichloroethane     | ug/L  | <b>14</b>         | 69.9              | NA        |      | 14        |      | <b>24</b> |      | No                                   |
| MW4  | Downgradient | 1,1-Dichloroethene     | ug/L  | 32.9              | 33.0              | NA        |      | 8.1       |      | 5.9       |      | No                                   |
| MW4  | Downgradient | cis-1,2-Dichloroethene | ug/L  | 250               | 461               | NA        |      | 110       |      | 88        |      | No                                   |
| MW4  | Downgradient | Tetrachloroethene      | ug/L  | 45.8              | 5.0               | NA        |      | 5         | U    | 5         | U    | No                                   |
| MW4  | Downgradient | Trichloroethene        | ug/L  | 340               | 5.0               | NA        |      | 5         | U    | 5         | U    | No                                   |
| MW4  | Downgradient | Vinyl Chloride         | ug/L  | <b>48</b>         | 137               | NA        |      | <b>59</b> |      | <b>60</b> |      | No                                   |
| MW5  | Upgradient   | 1,1,1-Trichloroethane  | ug/L  | 52.5              | 78.5              | NA        |      | 24        |      | 28        |      | No                                   |
| MW5  | Upgradient   | 1,1-Dichloroethane     | ug/L  | 14                | 25.8              | NA        |      | 6.5       |      | 6.6       |      | No                                   |
| MW5  | Upgradient   | 1,1-Dichloroethene     | ug/L  | 32.9              | 34.0              | NA        |      | 22        |      | 24        |      | No                                   |
| MW5  | Upgradient   | cis-1,2-Dichloroethene | ug/L  | 250               | 519               | NA        |      | 110       |      | 130       |      | No                                   |
| MW5  | Upgradient   | Tetrachloroethene      | ug/L  | 45.8              | 75.7              | NA        |      | 38        |      | 38        |      | No                                   |
| MW5  | Upgradient   | Trichloroethene        | ug/L  | 340               | 390               | NA        |      | 150       |      | 160       |      | No                                   |
| MW5  | Upgradient   | Vinyl Chloride         | ug/L  | 48                | 15.0              | NA        |      | 3.8       |      | 6.3       |      | No                                   |

December 2008 Through June 2011  
 Data Summary  
 IPC/Roto-Rooter Site

| Well | Location     | Parameter              | Units | Interwell         | Intrawell         | Jul-10 |      | Dec-10 |      | Jun-11 |      | STEP-Defined Statistical Exceedance? |
|------|--------------|------------------------|-------|-------------------|-------------------|--------|------|--------|------|--------|------|--------------------------------------|
|      |              |                        |       | Upper Limit (95%) | Upper Limit (99%) | Result | Qual | Result | Qual | Result | Qual |                                      |
| MW6  | Upgradient   | 1,1,1-Trichloroethane  | ug/L  | 52.5              | 71.3              | NA     |      | 23     |      | 26     |      | No                                   |
| MW6  | Upgradient   | 1,1-Dichloroethane     | ug/L  | 14                | 42.1              | NA     |      | 6.8    |      | 11     |      | No                                   |
| MW6  | Upgradient   | 1,1-Dichloroethene     | ug/L  | 32.9              | 36.5              | NA     |      | 19     |      | 19     |      | No                                   |
| MW6  | Upgradient   | cis-1,2-Dichloroethene | ug/L  | 250               | 352               | NA     |      | 110    |      | 91     |      | No                                   |
| MW6  | Upgradient   | Tetrachloroethene      | ug/L  | 45.8              | 47.6              | NA     |      | 27     |      | 32     |      | No                                   |
| MW6  | Upgradient   | Trichloroethene        | ug/L  | 340               | 220               | NA     |      | 110    |      | 130    |      | No                                   |
| MW6  | Upgradient   | Vinyl Chloride         | ug/L  | 48                | 104               | NA     |      | 12     |      | 10     |      | No                                   |
| MW8  | Downgradient | 1,1,1-Trichloroethane  | ug/L  | 52.5              | 30.2              | NA     |      | 5.3    |      | 5      | U    | No                                   |
| MW8  | Downgradient | 1,1-Dichloroethane     | ug/L  | 14                | 34.0              | NA     |      | 14     |      | 7.9    |      | No                                   |
| MW8  | Downgradient | 1,1-Dichloroethene     | ug/L  | 32.9              | 14.1              | NA     |      | 5      |      | 5      | U    | No                                   |
| MW8  | Downgradient | cis-1,2-Dichloroethene | ug/L  | 250               | 78.2              | NA     |      | 29     |      | 17     |      | No                                   |
| MW8  | Downgradient | Tetrachloroethene      | ug/L  | 45.8              | 5.0               | NA     |      | 5      | U    | 5      | U    | No                                   |
| MW8  | Downgradient | Trichloroethene        | ug/L  | 340               | 171               | NA     |      | 40     |      | 28     |      | No                                   |
| MW8  | Downgradient | Vinyl Chloride         | ug/L  | 48                | 2.0               | NA     |      | 2      | U    | 2      | U    | No                                   |
| MW9  | Downgradient | 1,1,1-Trichloroethane  | ug/L  | 52.5              | 5.0               | NA     |      | 5      | U    | 5      | U    | No                                   |
| MW9  | Downgradient | 1,1-Dichloroethane     | ug/L  | 14                | 5.0               | NA     |      | 5      | U    | 5      | U    | No                                   |
| MW9  | Downgradient | 1,1-Dichloroethene     | ug/L  | 32.9              | 5.0               | NA     |      | 5      | U    | 5      | U    | No                                   |
| MW9  | Downgradient | cis-1,2-Dichloroethene | ug/L  | 250               | 5.0               | NA     |      | 5      | U    | 5      | U    | No                                   |
| MW9  | Downgradient | Tetrachloroethene      | ug/L  | 45.8              | 5.0               | NA     |      | 5      | U    | 5      | U    | No                                   |
| MW9  | Downgradient | Trichloroethene        | ug/L  | 340               | 5.0               | NA     |      | 5      | U    | 5      | U    | No                                   |
| MW9  | Downgradient | Vinyl Chloride         | ug/L  | 48                | 2.0               | NA     |      | 2      | U    | 2      | U    | No                                   |

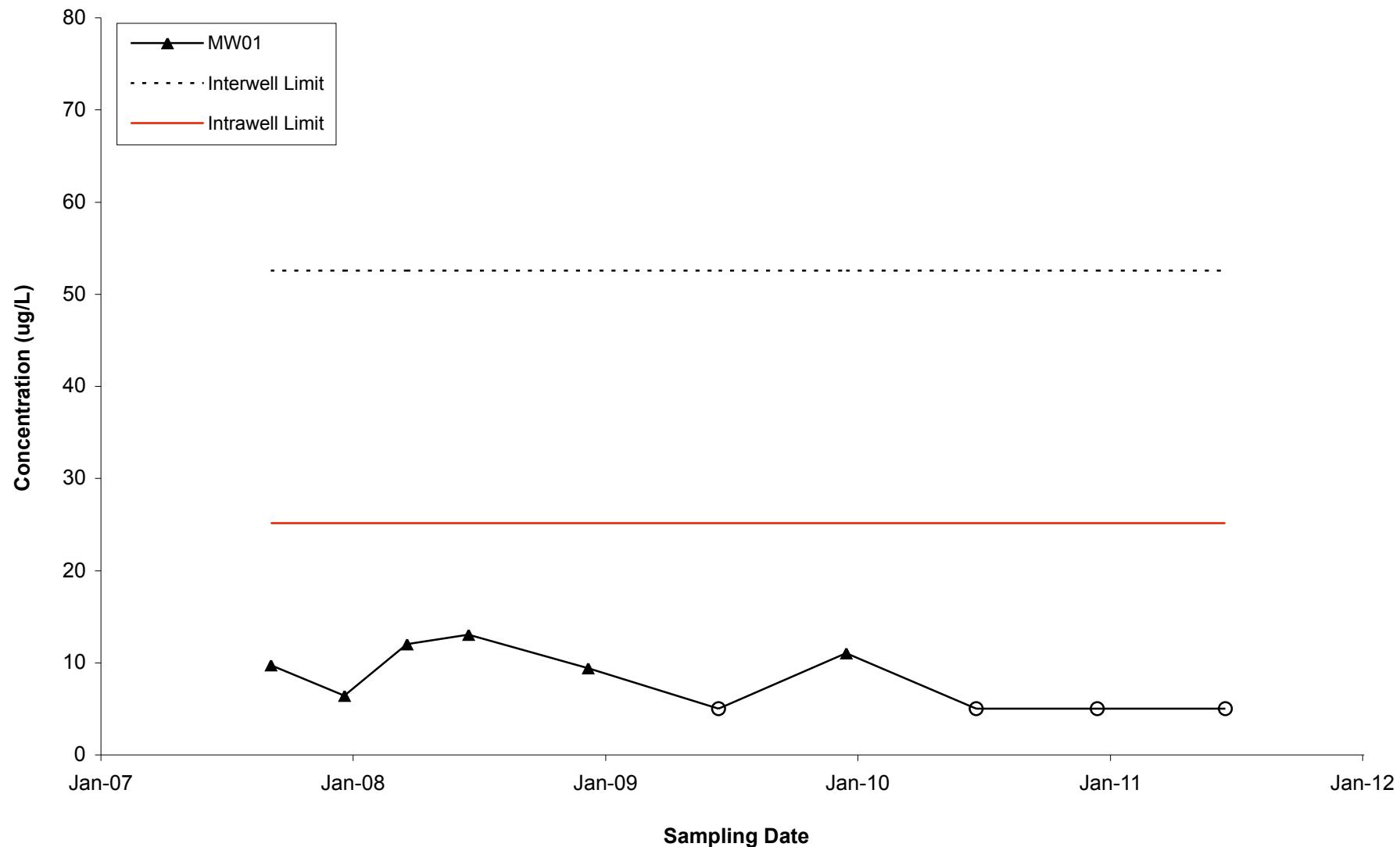
All data reported in ug/L.

NA - Not Applicable

Interwell and Intrawell limits calculated using background data collected: Sep. 2007, Dec  
 Interwell limits for 1,1-dichloroethane; tetrachloroethene; and trichloroethene coll  
 Intrawell limits for 1,1-dichloroethane (MW3); tetrachloroethene and trichloroeth  
 Intrawell limits for all parameters (MW8 and MW9) collected: Mar. 2009, Jun. 20

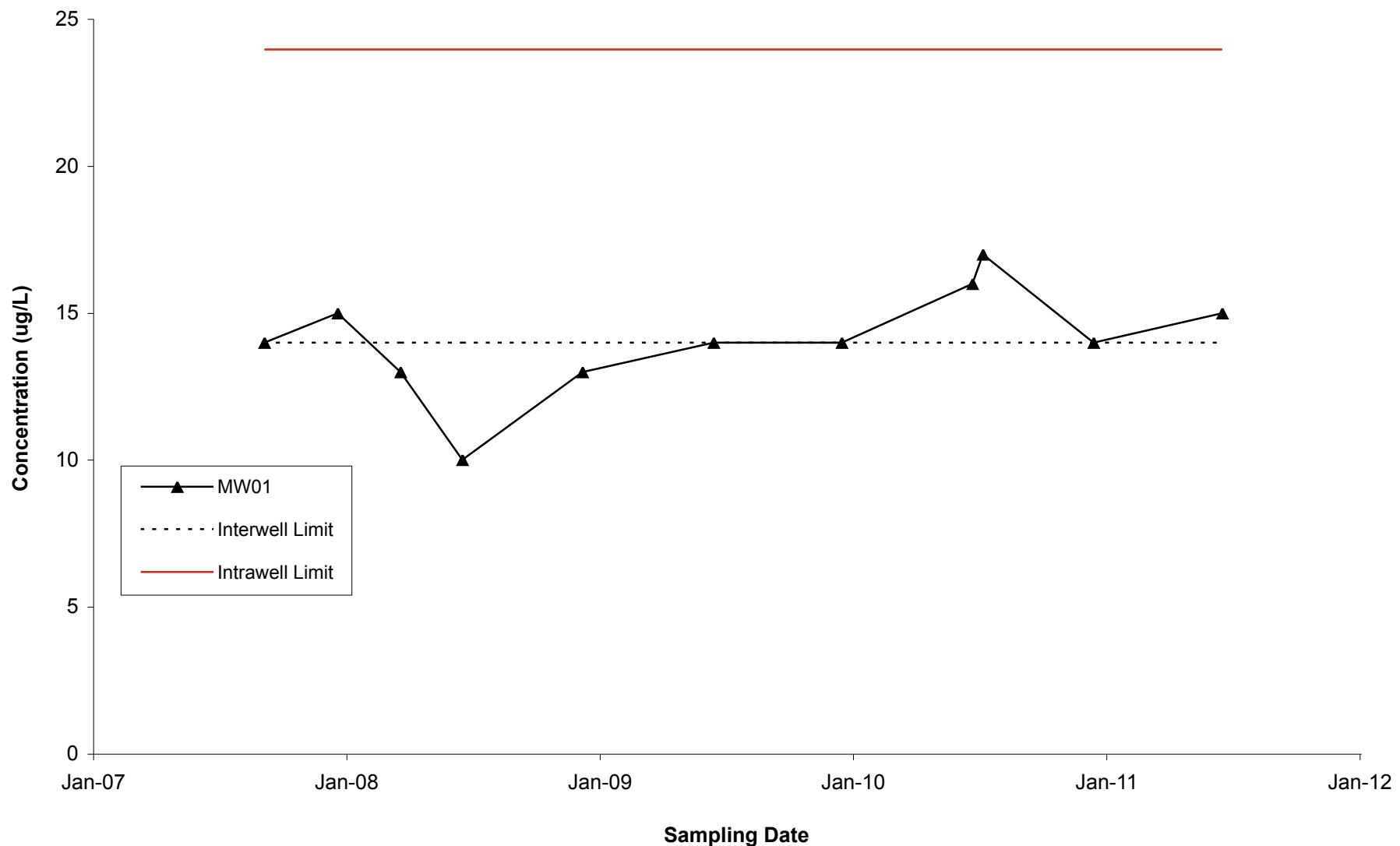
**1,1,1-Trichloroethane in Well MW01**  
**IPC/Roto-Rooter Landfill**

Note: Non-detects are  
marked with a clear circle.



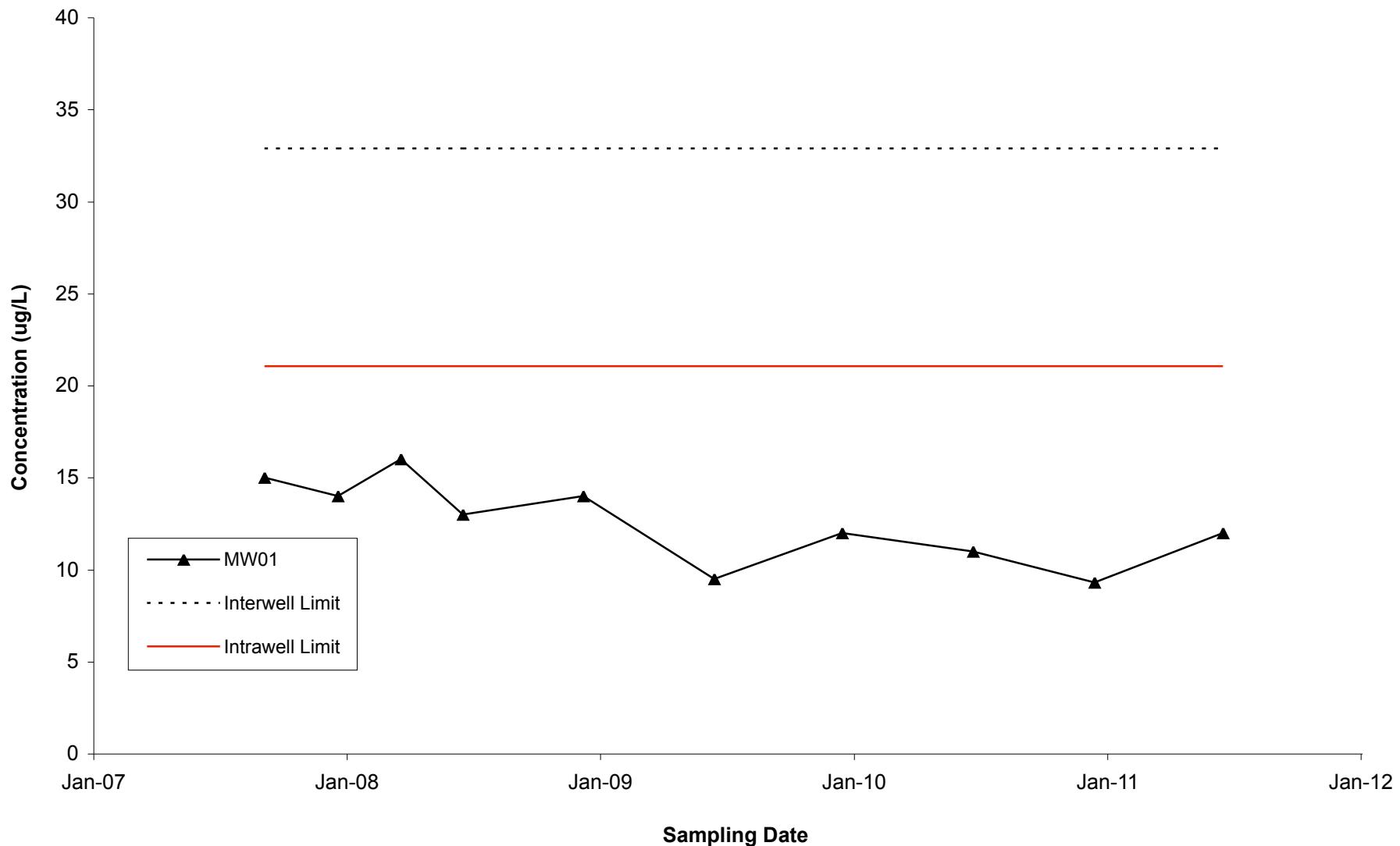
**1,1-Dichloroethane in Well MW01**  
**IPC/Roto-Rooter Landfill**

Note: Non-detects are  
marked with a clear circle.



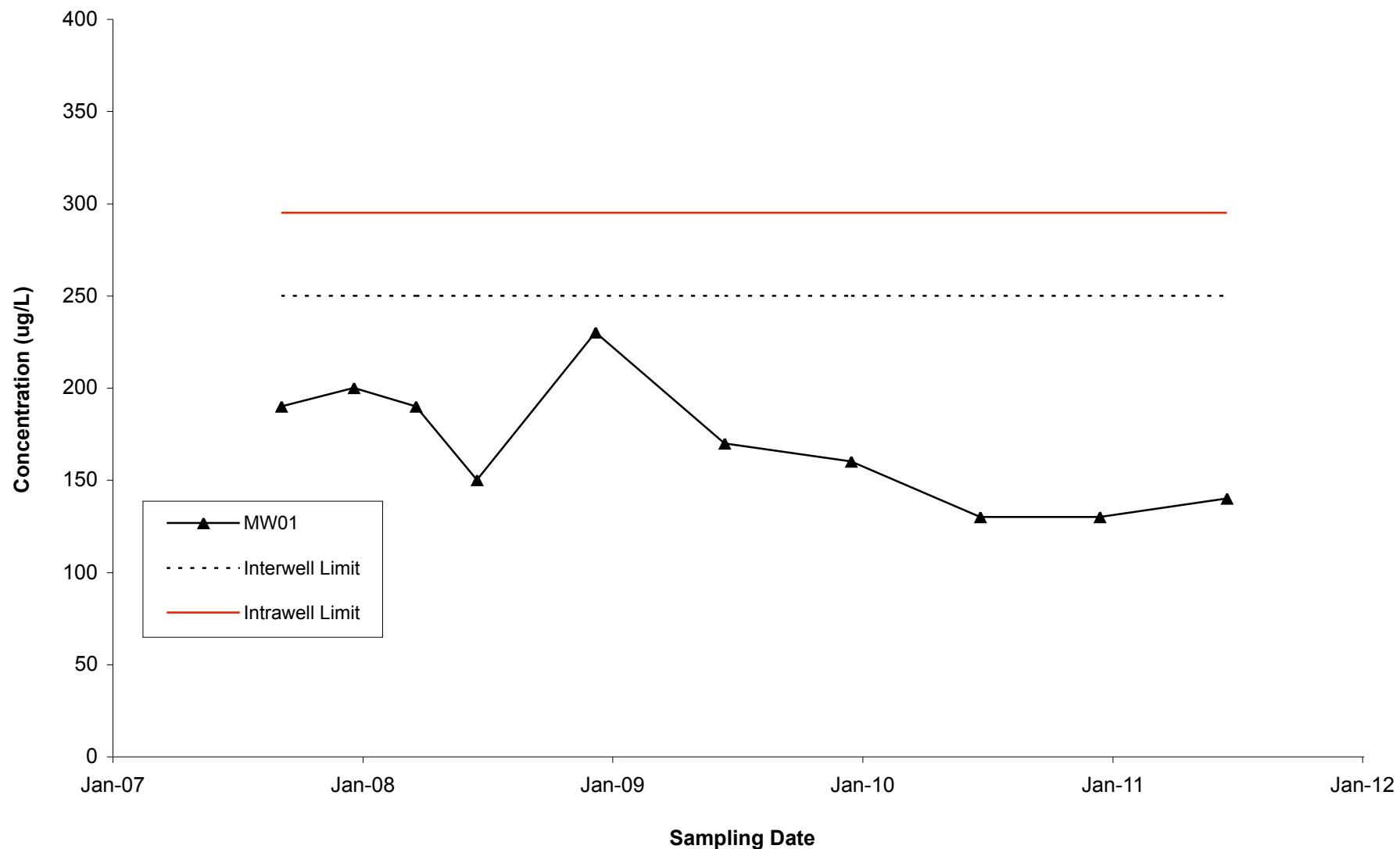
**1,1-Dichloroethene in Well MW01**  
**IPC/Roto-Rooter Landfill**

Note: Non-detects are  
marked with a clear circle.



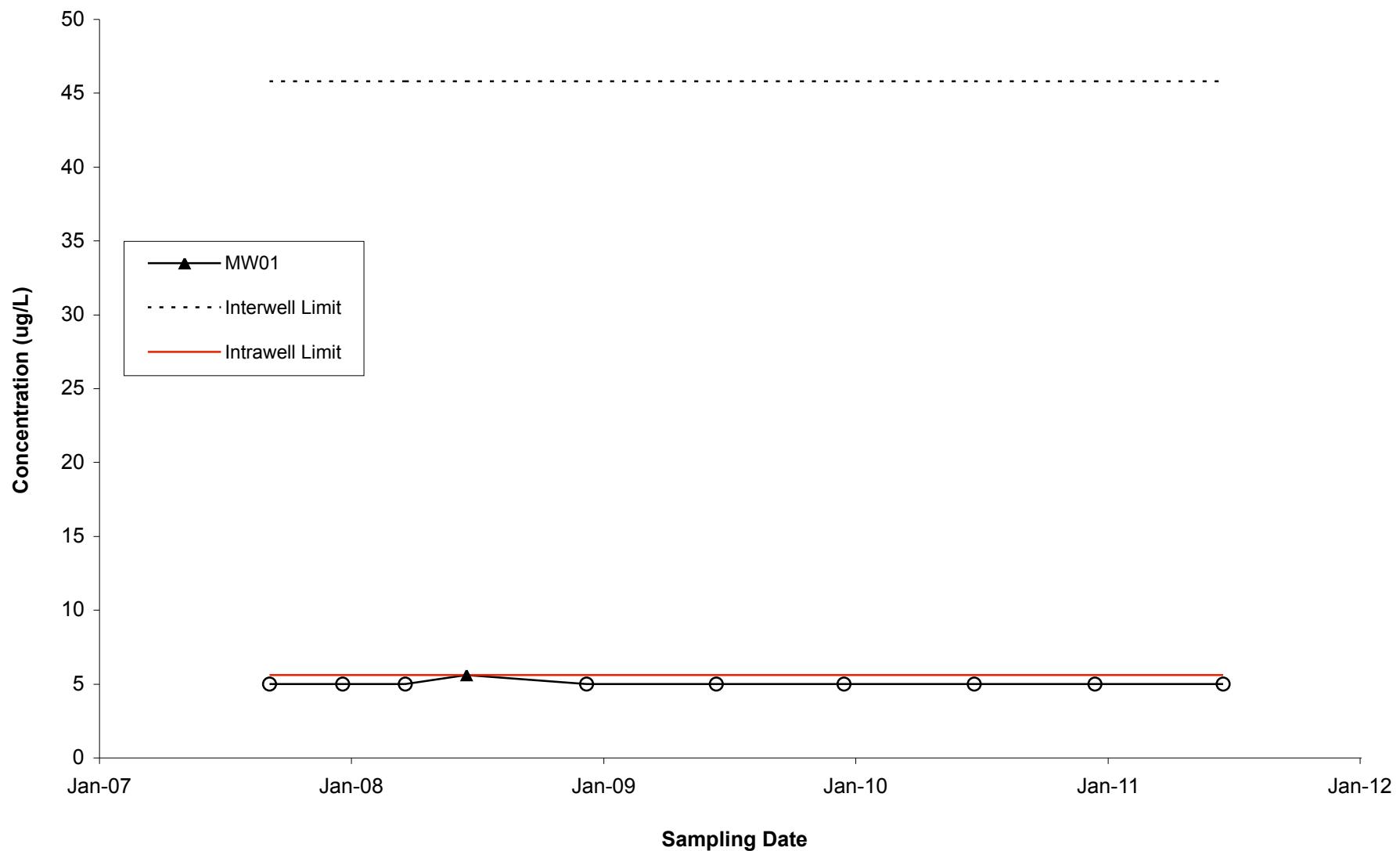
**cis-1,2-Dichloroethene in Well MW01**  
**IPC/Roto-Rooter Landfill**

Note: Non-detects are  
marked with a clear circle.



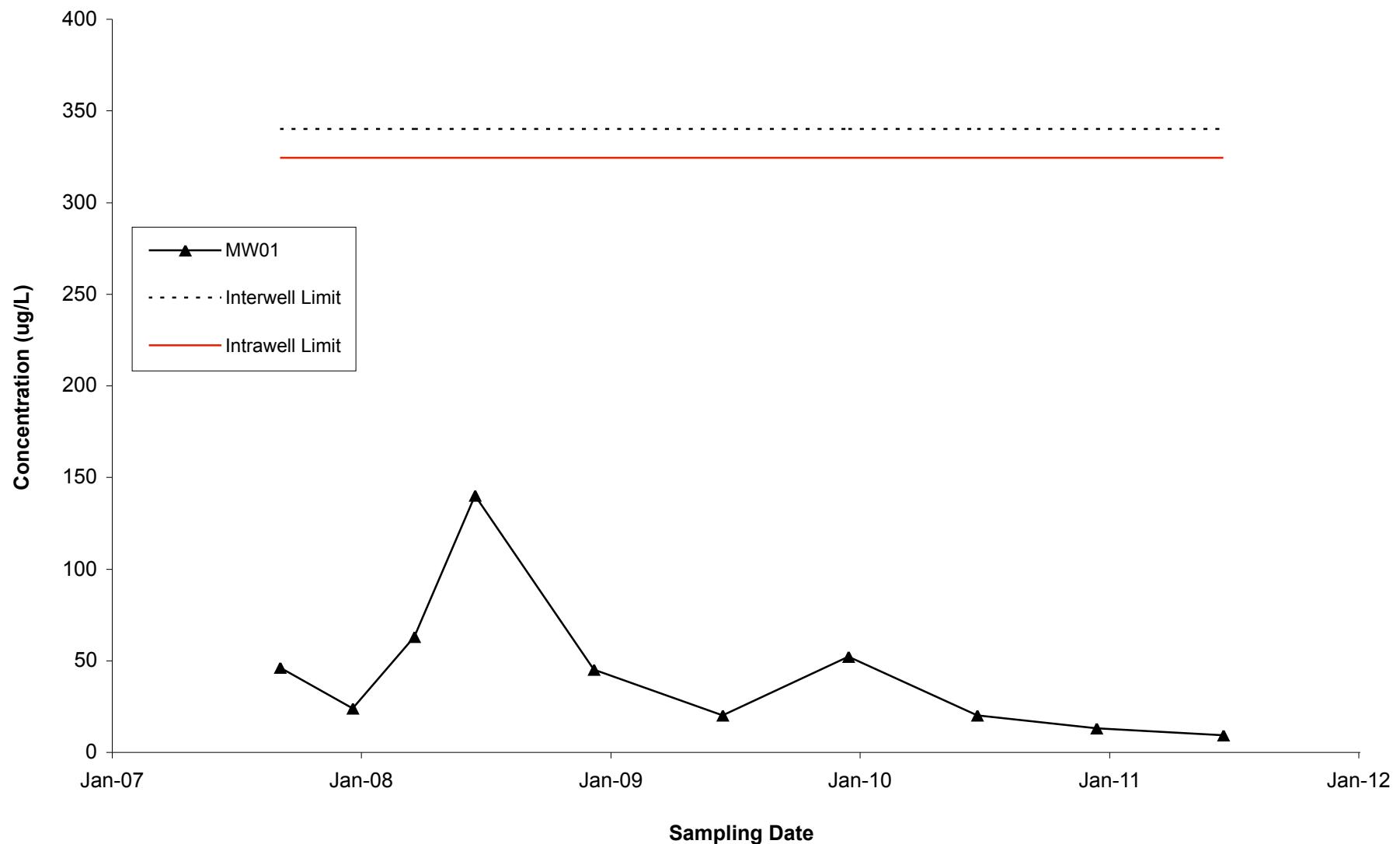
**Tetrachloroethene in Well MW01**  
**IPC/Roto-Rooter Landfill**

Note: Non-detects are  
marked with a clear circle.



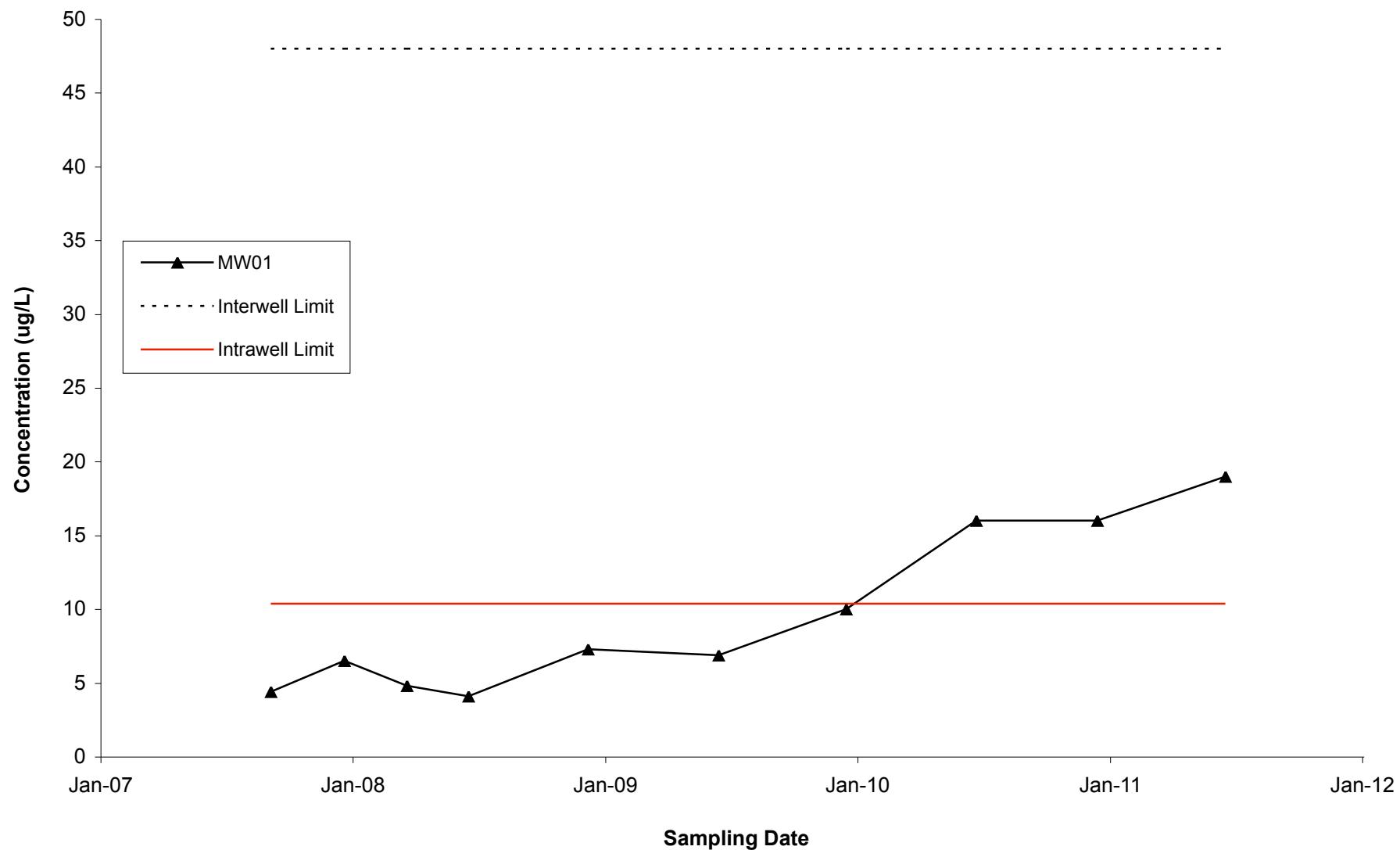
**Trichloroethene in Well MW01**  
**IPC/Roto-Rooter Landfill**

Note: Non-detects are  
marked with a clear circle.



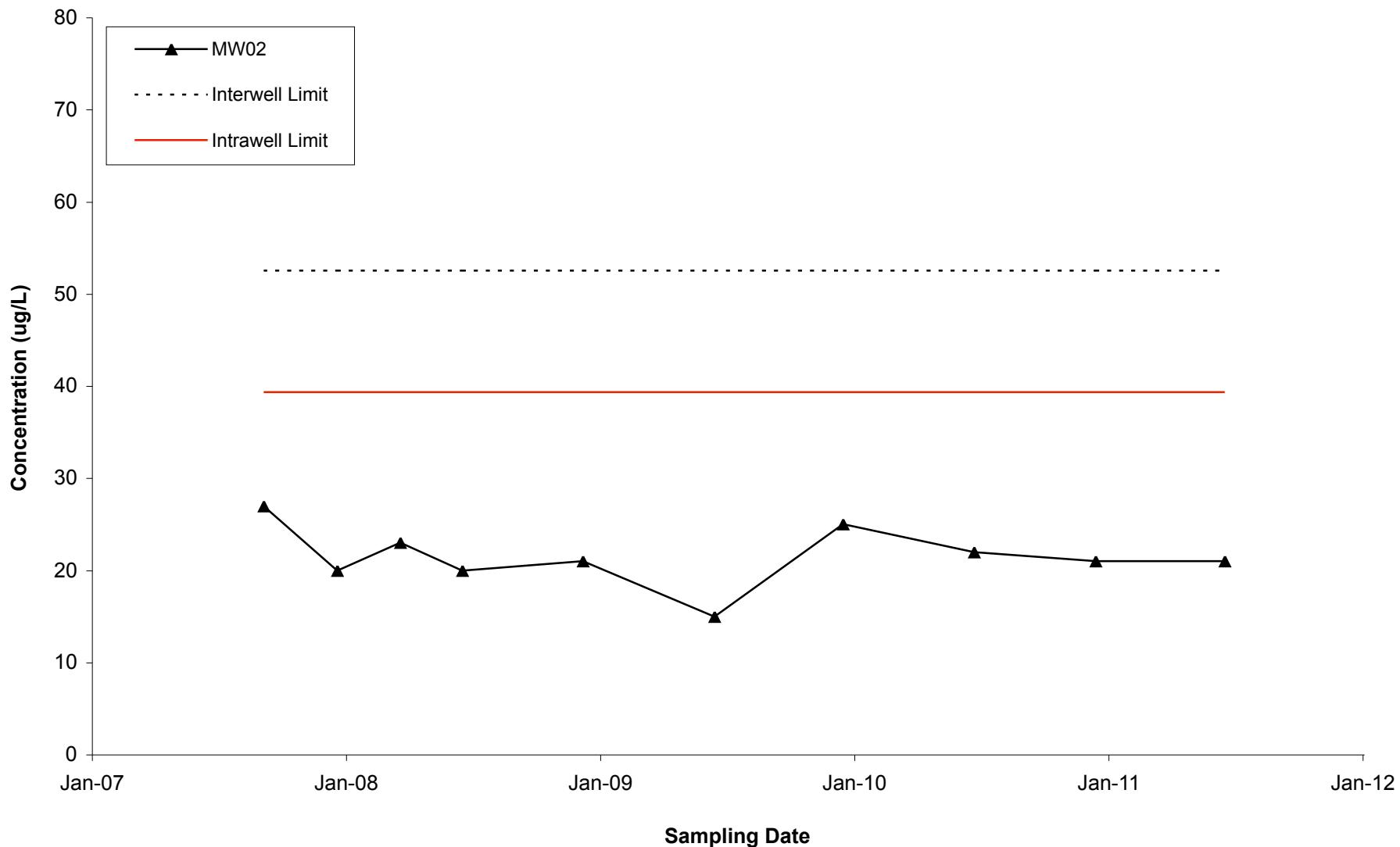
**Vinyl Chloride in Well MW01**  
**IPC/Roto-Rooter Landfill**

Note: Non-detects are  
marked with a clear circle.



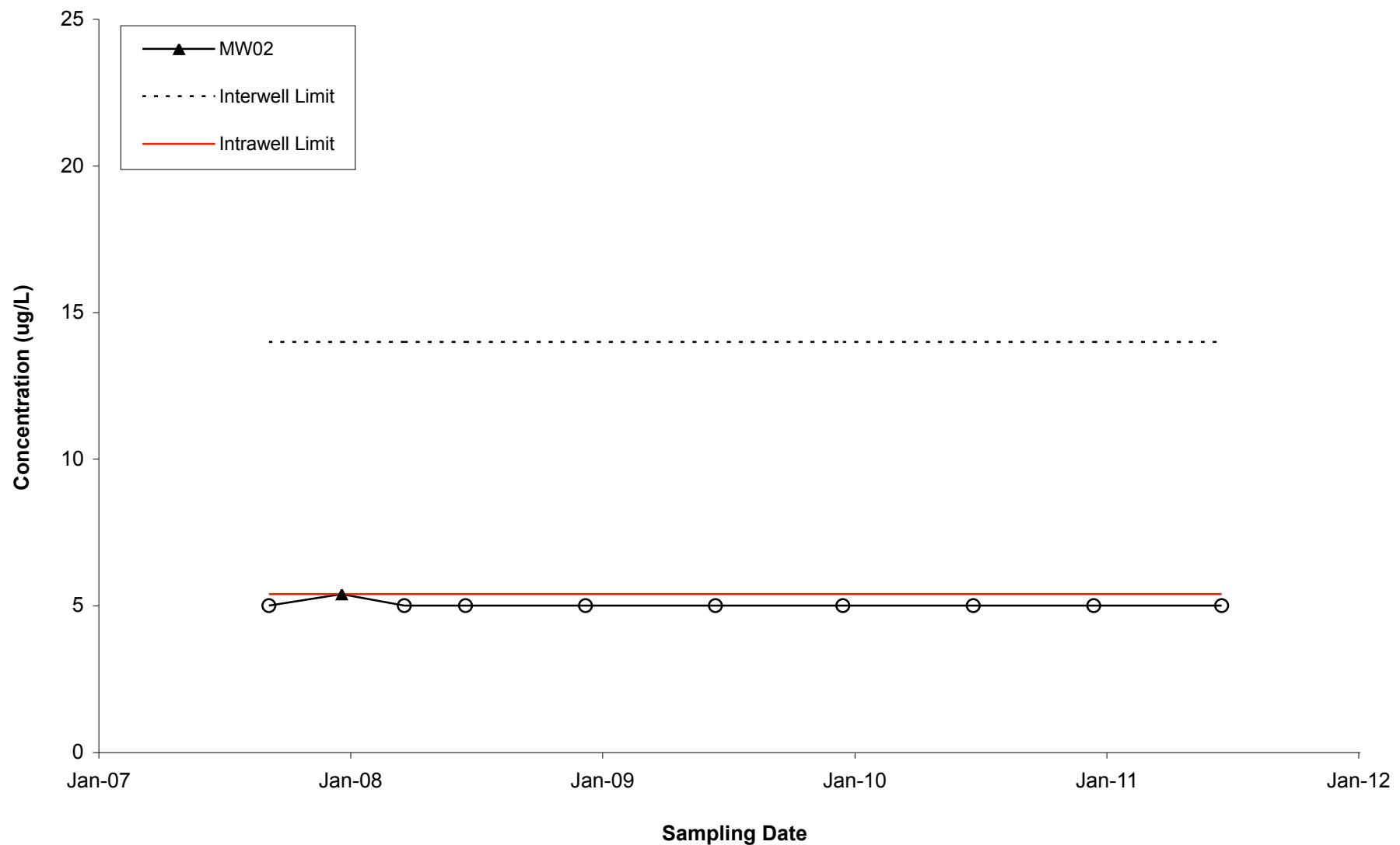
**1,1,1-Trichloroethane in Well MW02**  
**IPC/Roto-Rooter Landfill**

Note: Non-detects are  
marked with a clear circle.



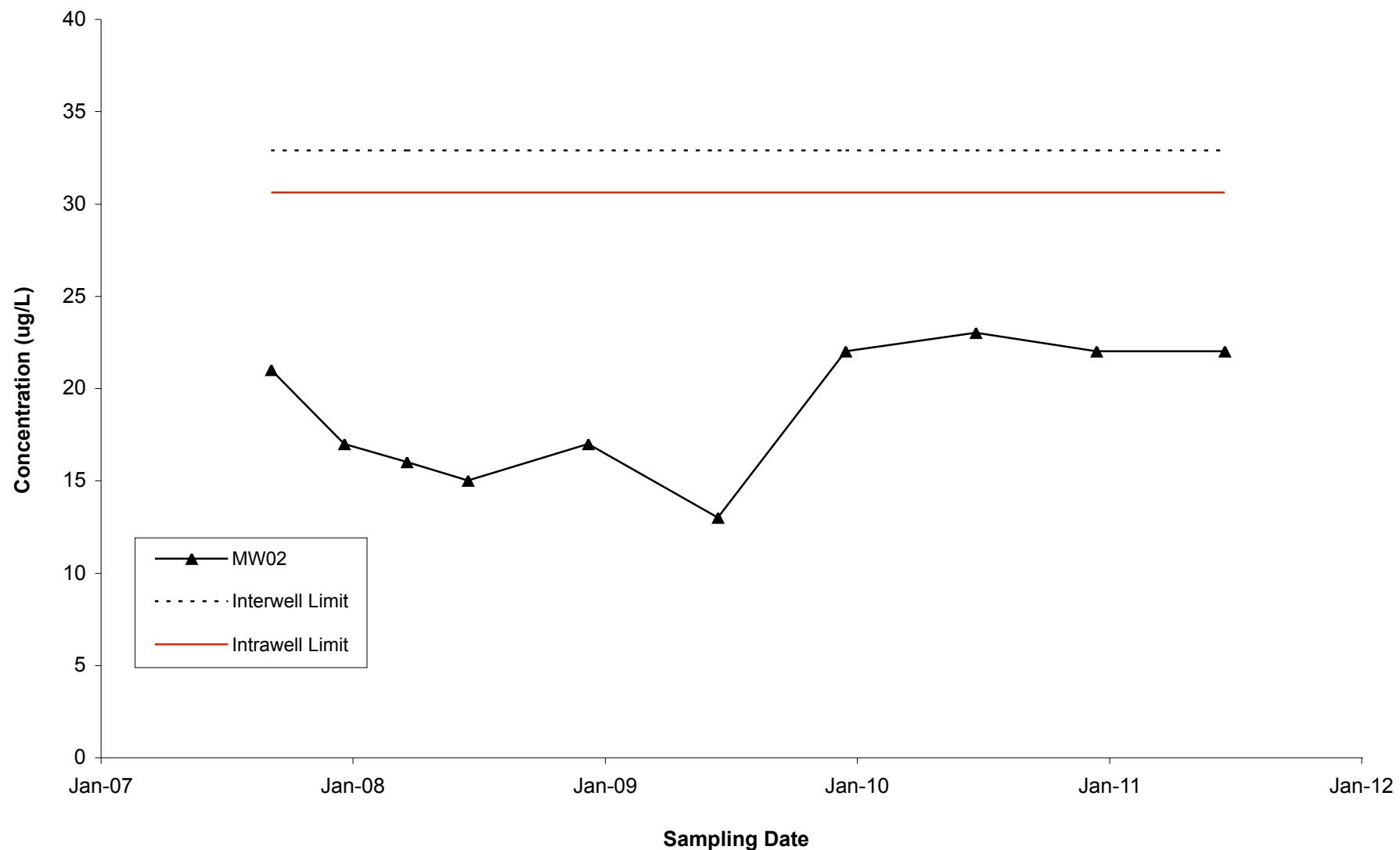
**1,1-Dichloroethane in Well MW02**  
**IPC/Roto-Rooter Landfill**

Note: Non-detects are  
marked with a clear circle.



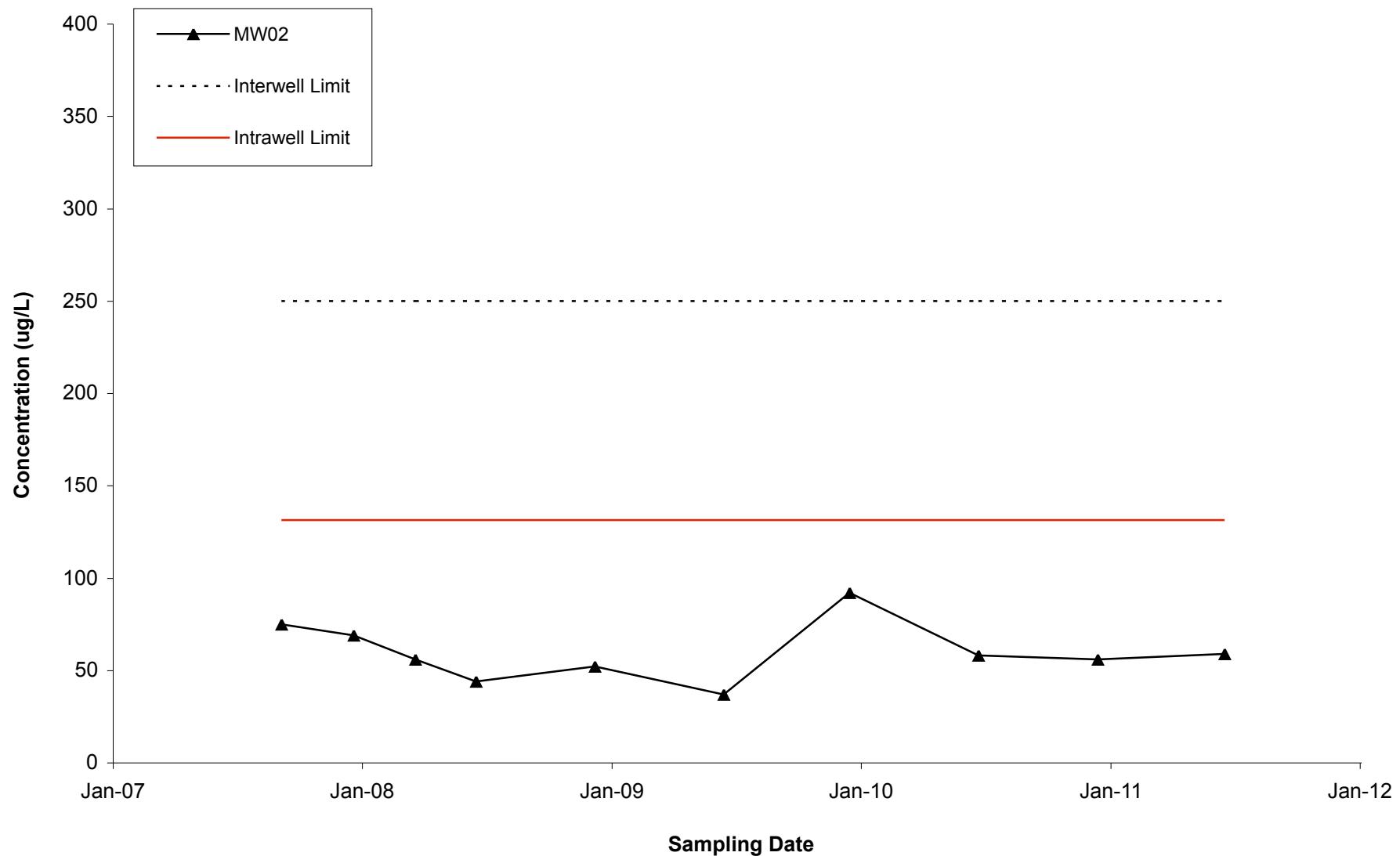
**1,1-Dichloroethene in Well MW02**  
**IPC/Roto-Rooter Landfill**

Note: Non-detects are  
marked with a clear circle.



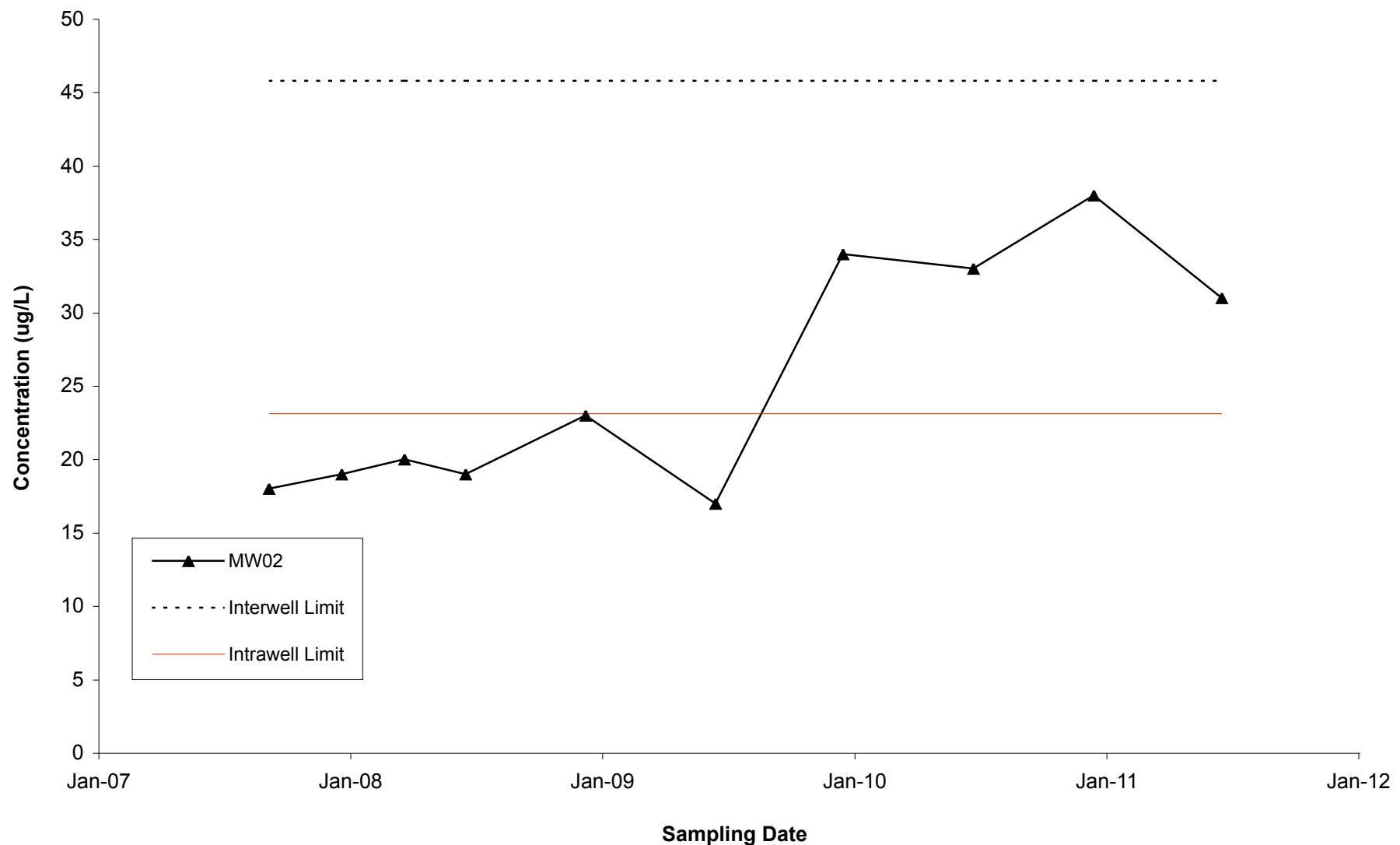
**cis-1,2-Dichloroethene in Well MW02**  
**IPC/Roto-Rooter Landfill**

Note: Non-detects are  
marked with a clear circle.



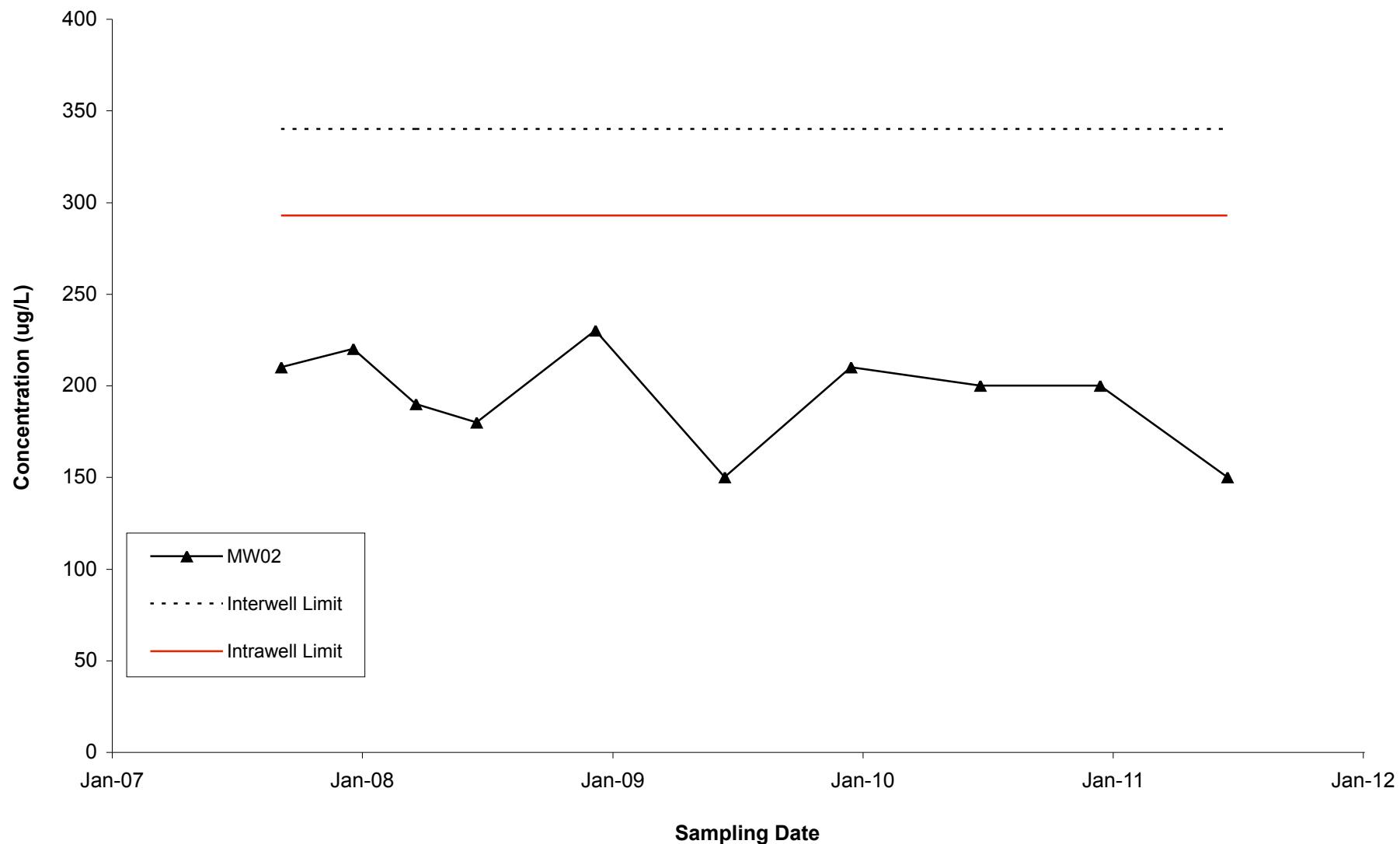
**Tetrachloroethene in Well MW02**  
**IPC/Roto-Rooter Landfill**

Note: Non-detects are  
marked with a clear circle.



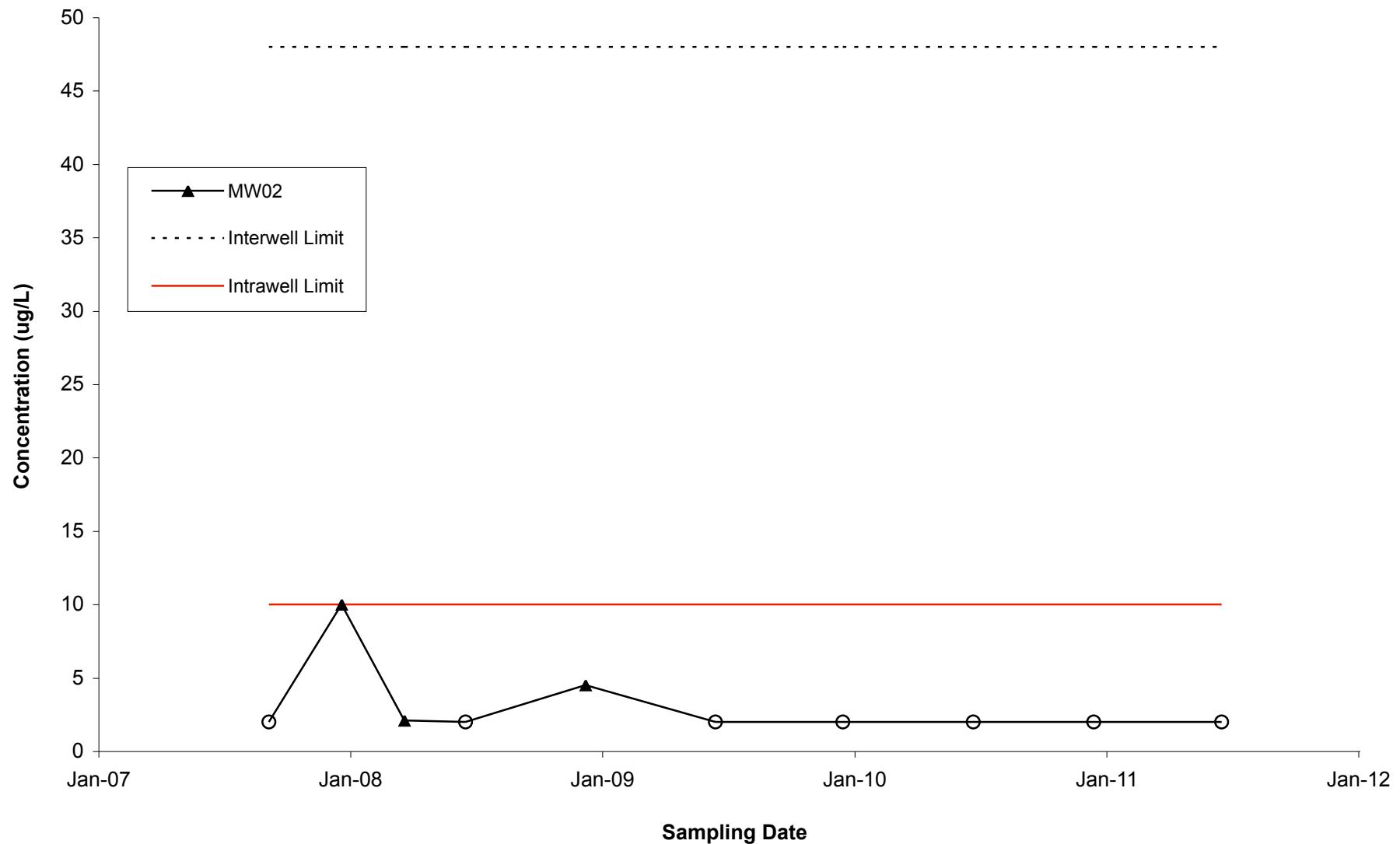
**Trichloroethene in Well MW02**  
**IPC/Roto-Rooter Landfill**

Note: Non-detects are  
marked with a clear circle.



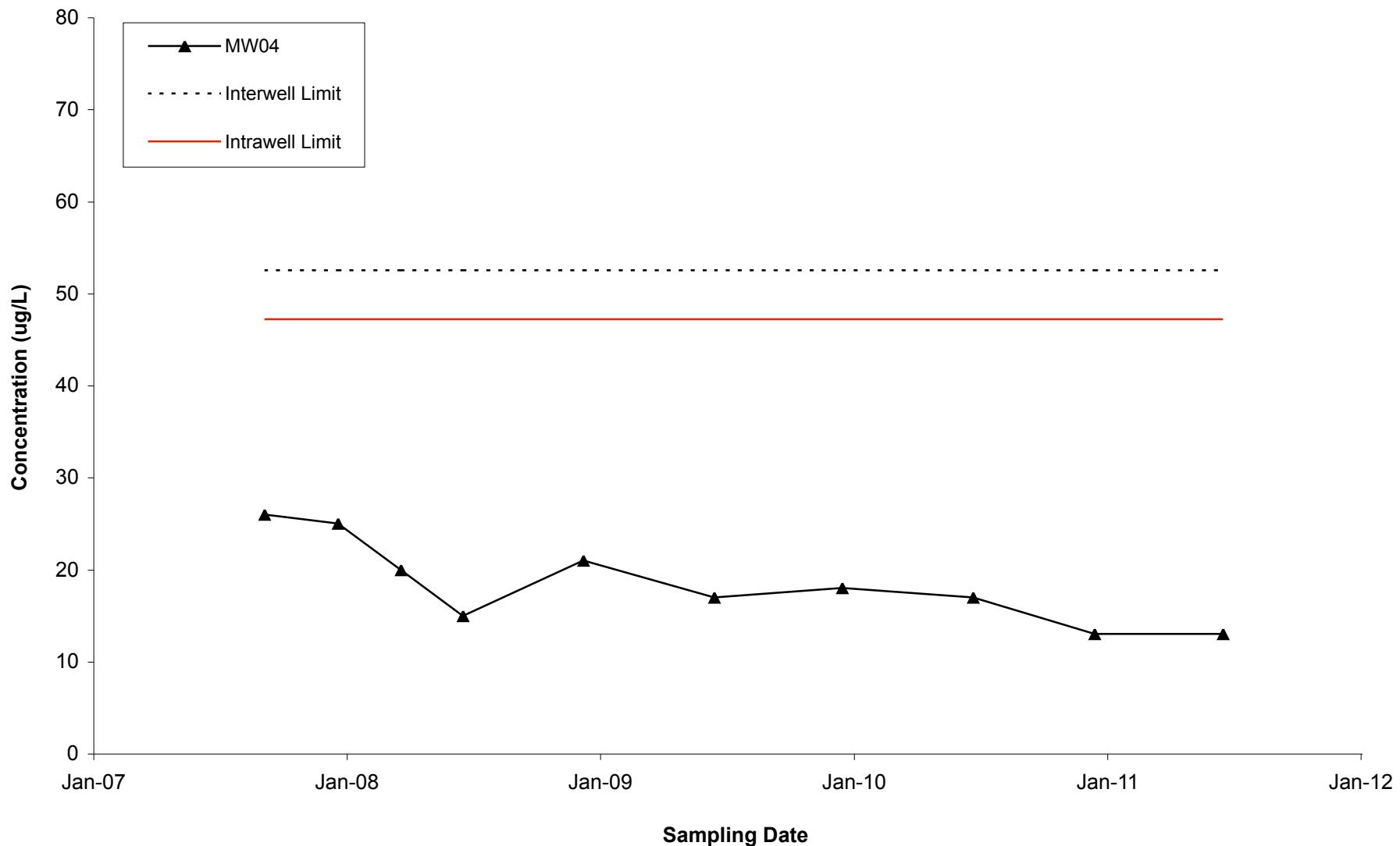
**Vinyl Chloride in Well MW02**  
**IPC/Roto-Rooter Landfill**

Note: Non-detects are  
marked with a clear circle.



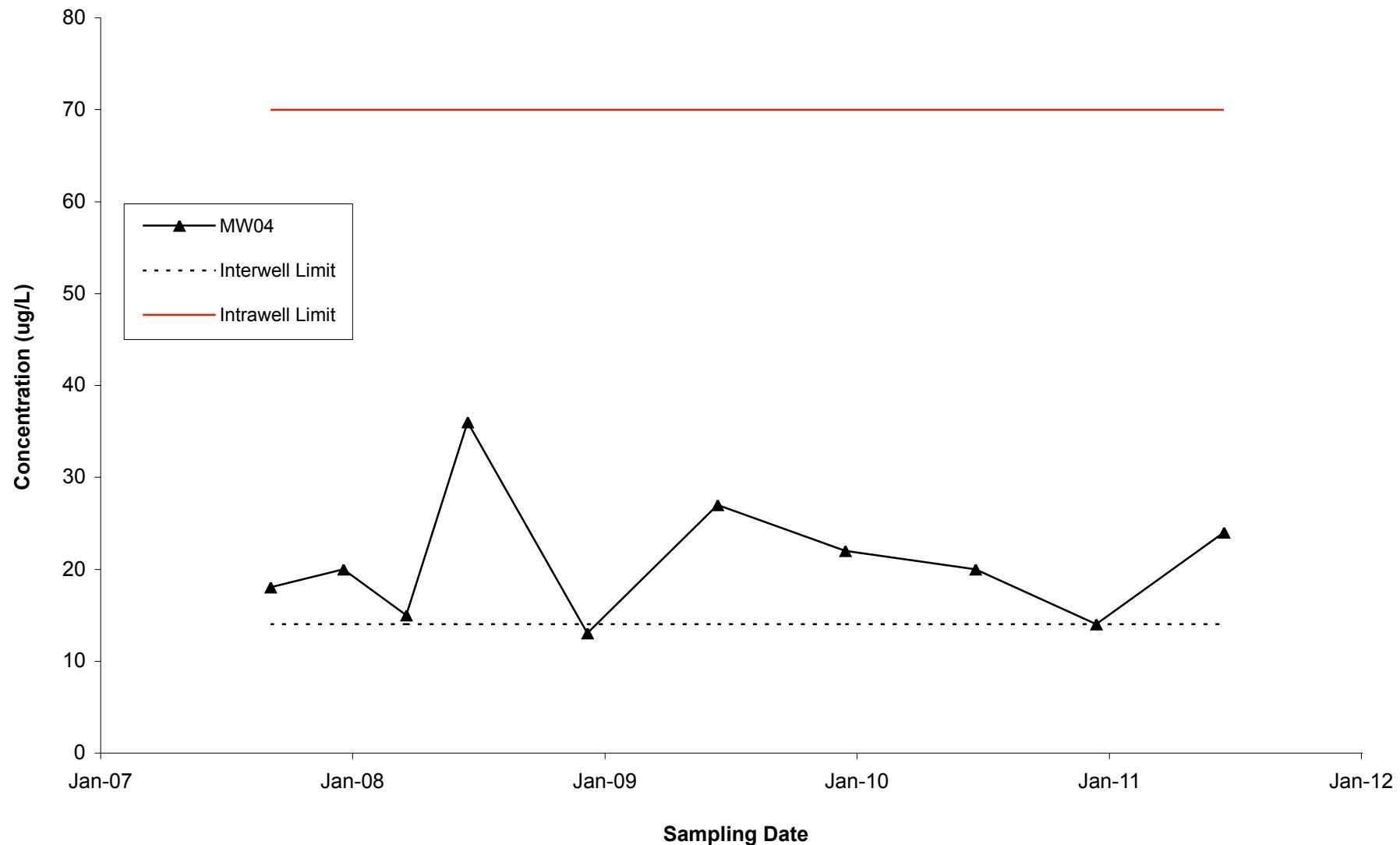
**1,1,1-Trichloroethane in Well MW04**  
**IPC/Roto-Rooter Landfill**

Note: Non-detects are  
marked with a clear circle.



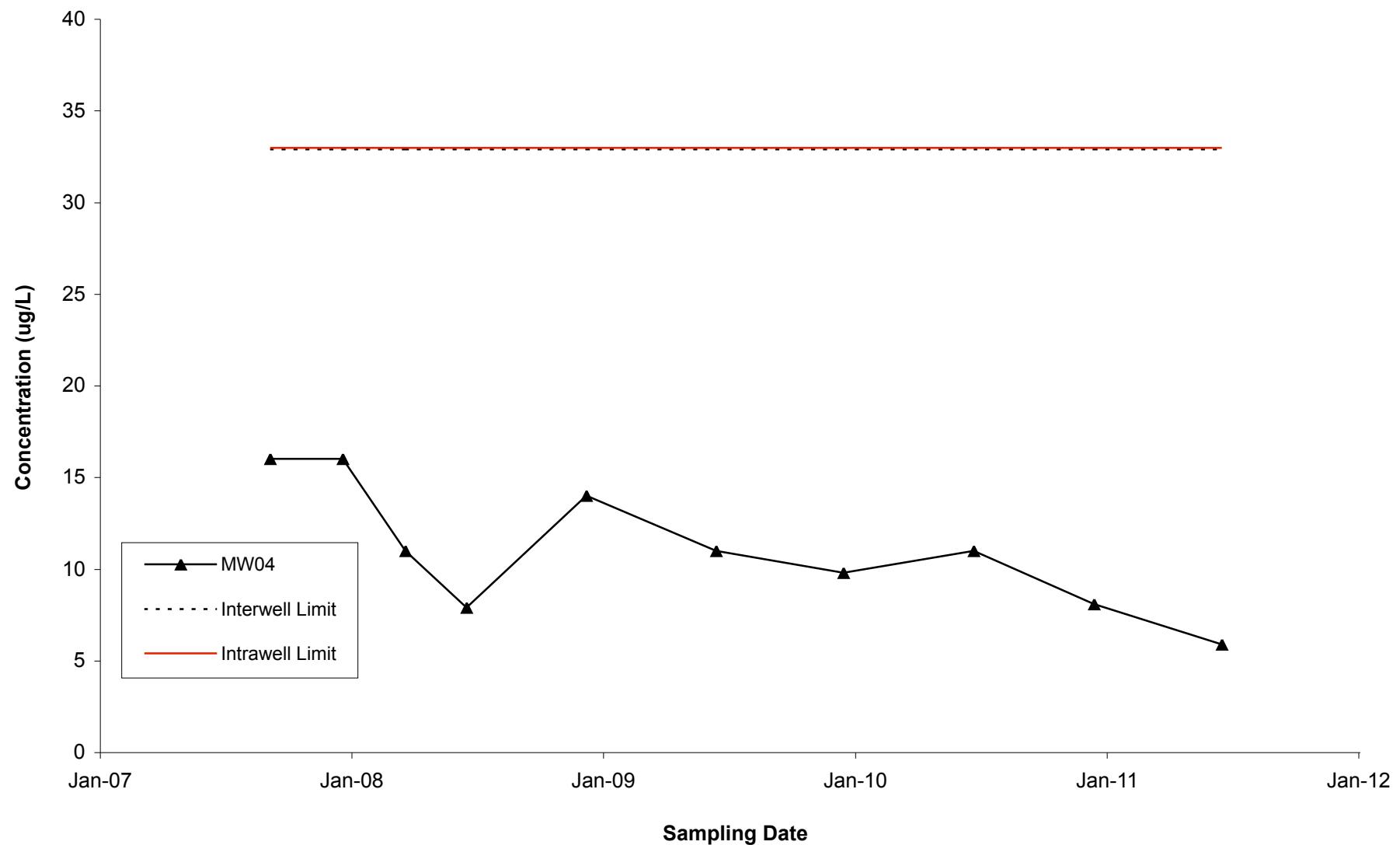
**1,1-Dichloroethane in Well MW04**  
**IPC/Roto-Rooter Landfill**

Note: Non-detects are  
marked with a clear circle.



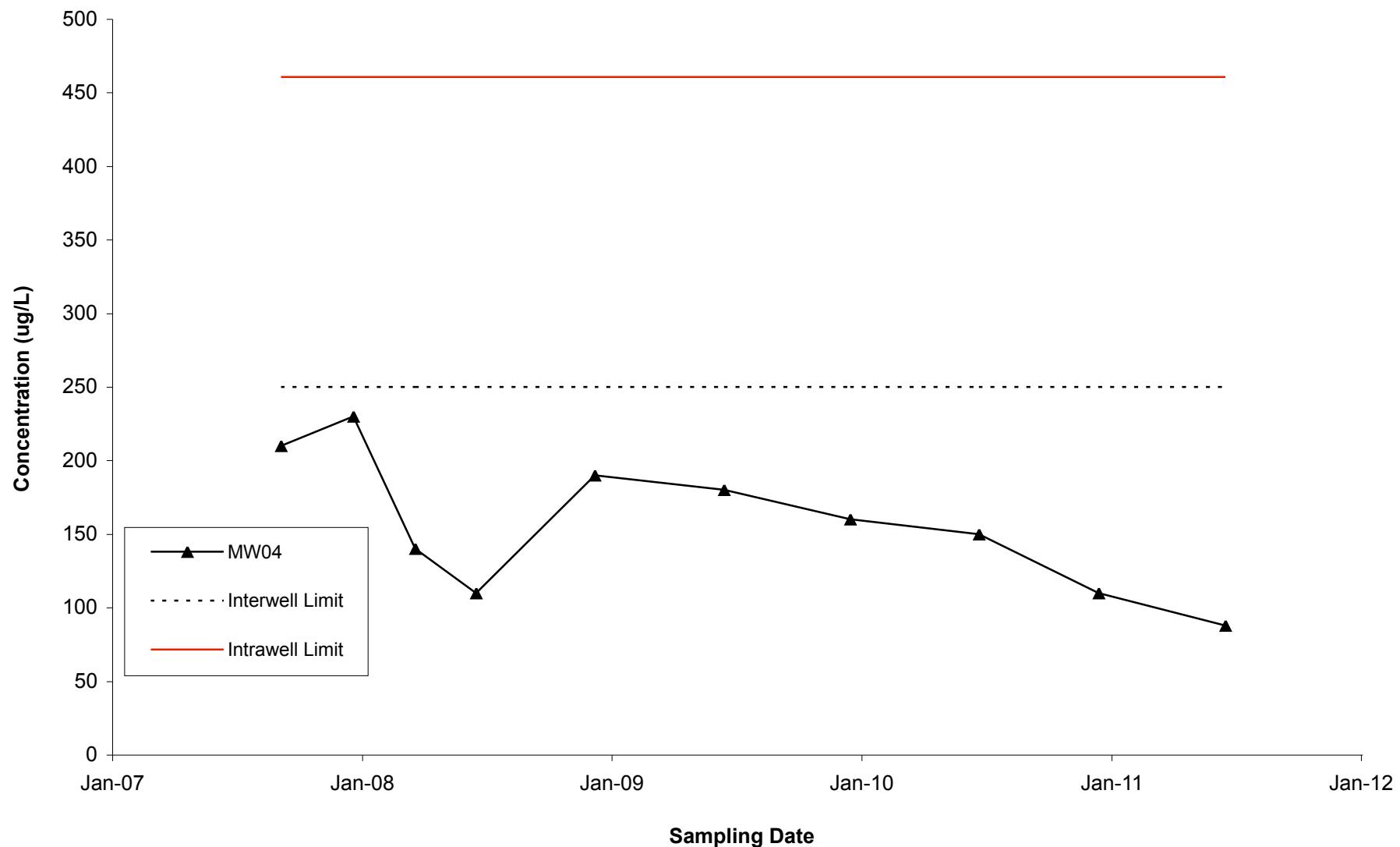
**1,1-Dichloroethene in Well MW04**  
**IPC/Roto-Rooter Landfill**

Note: Non-detects are  
marked with a clear circle.



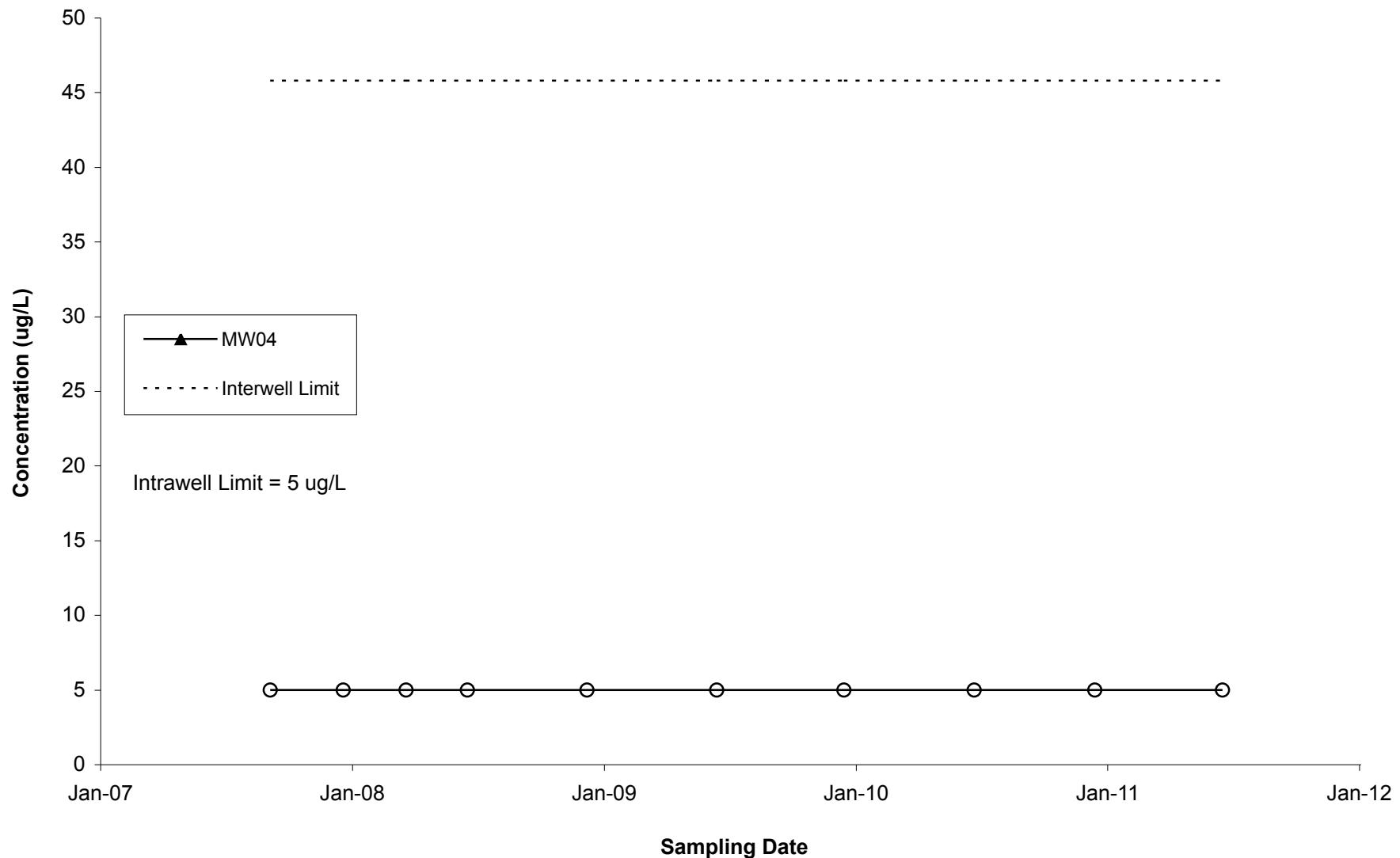
**cis-1,2-Dichloroethene in Well MW04**  
**IPC/Roto-Rooter Landfill**

Note: Non-detects are  
marked with a clear circle.



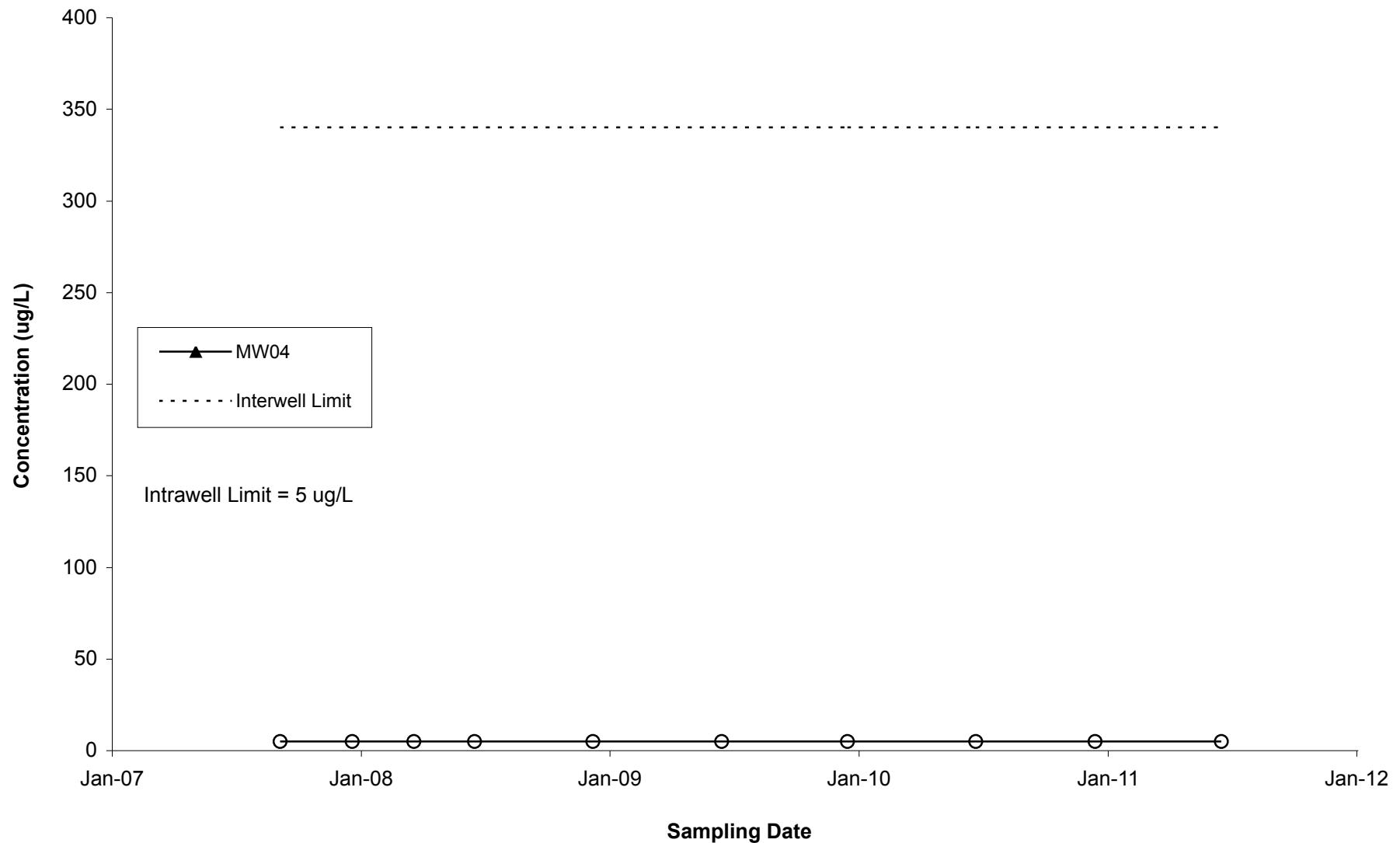
**Tetrachloroethene in Well MW04**  
**IPC/Roto-Rooter Landfill**

Note: Non-detects are  
marked with a clear circle.



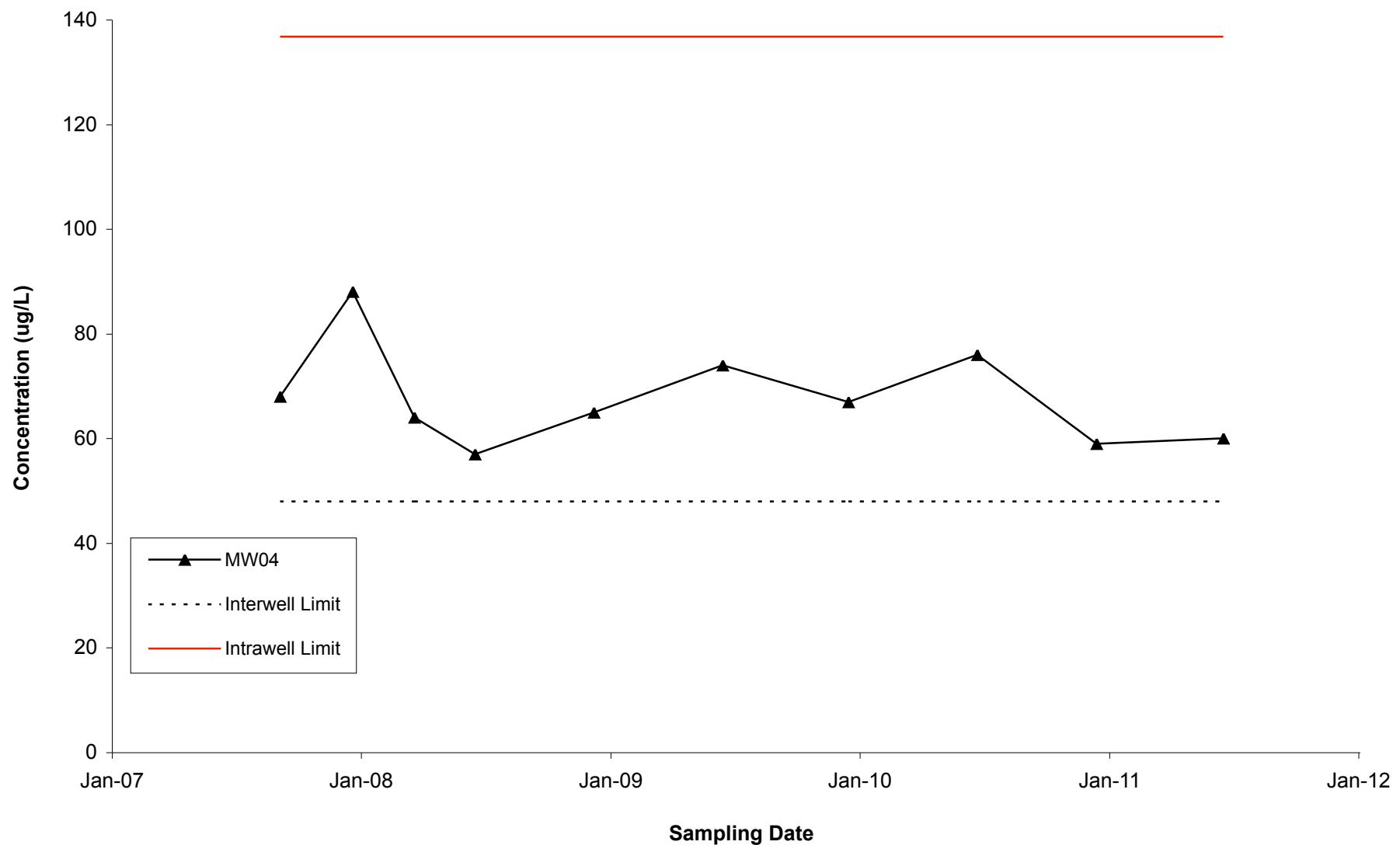
**Trichloroethene in Well MW04**  
**IPC/Roto-Rooter Landfill**

Note: Non-detects are  
marked with a clear circle.



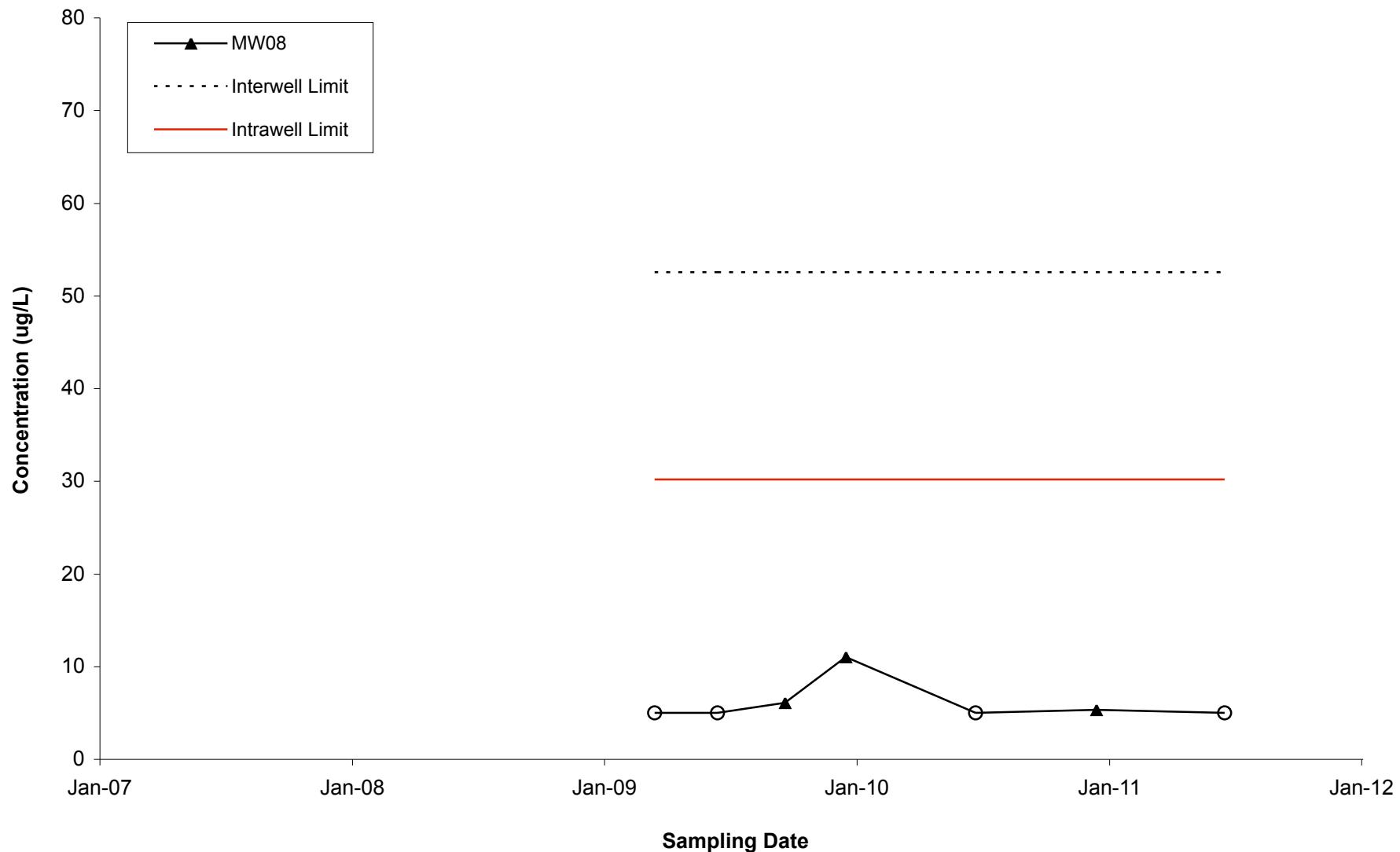
**Vinyl Chloride in Well MW04**  
**IPC/Roto-Rooter Landfill**

Note: Non-detects are  
marked with a clear circle.



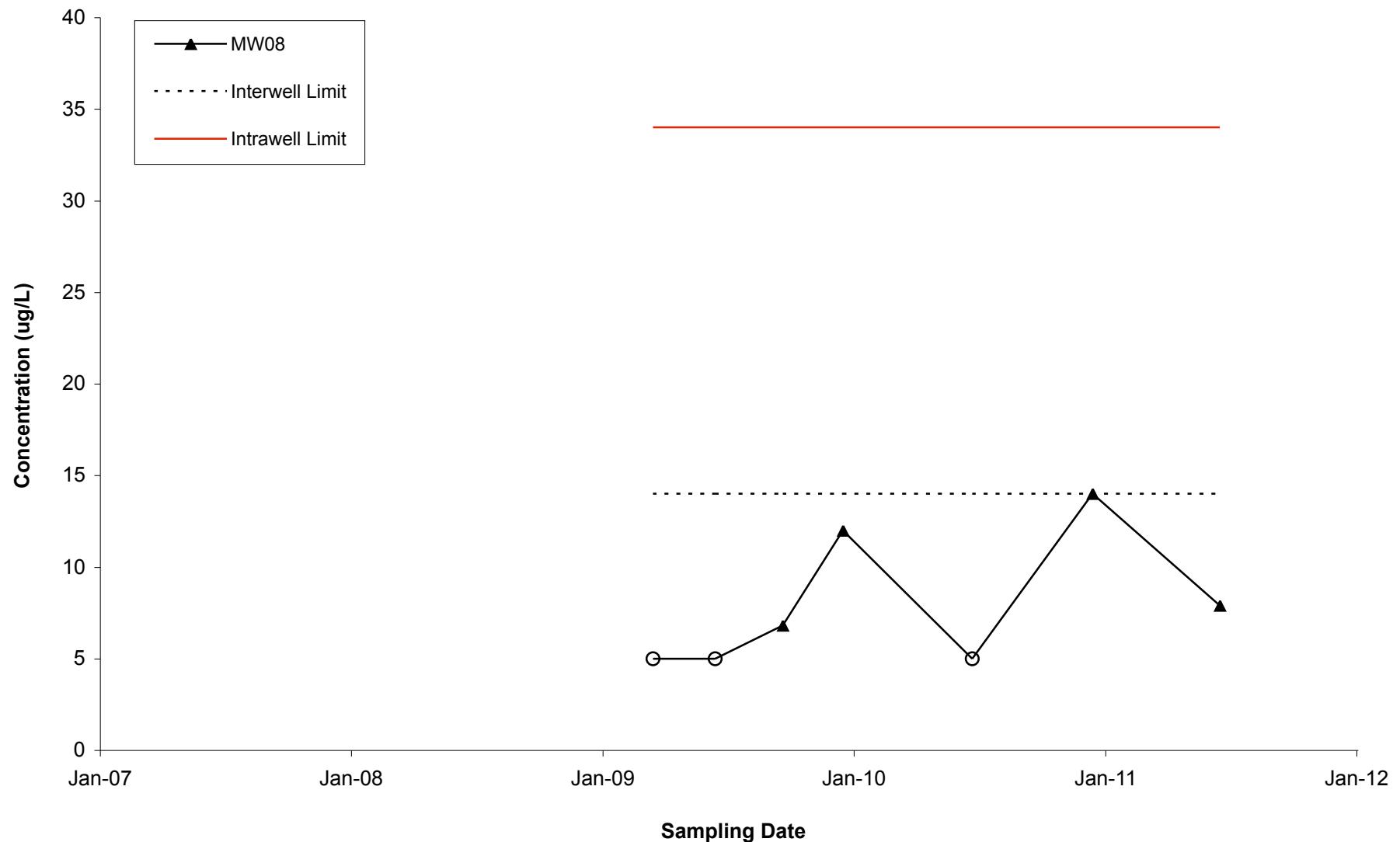
**1,1,1-Trichloroethane in Well MW08**  
**IPC/Roto-Rooter Landfill**

Note: Non-detects are  
marked with a clear circle.



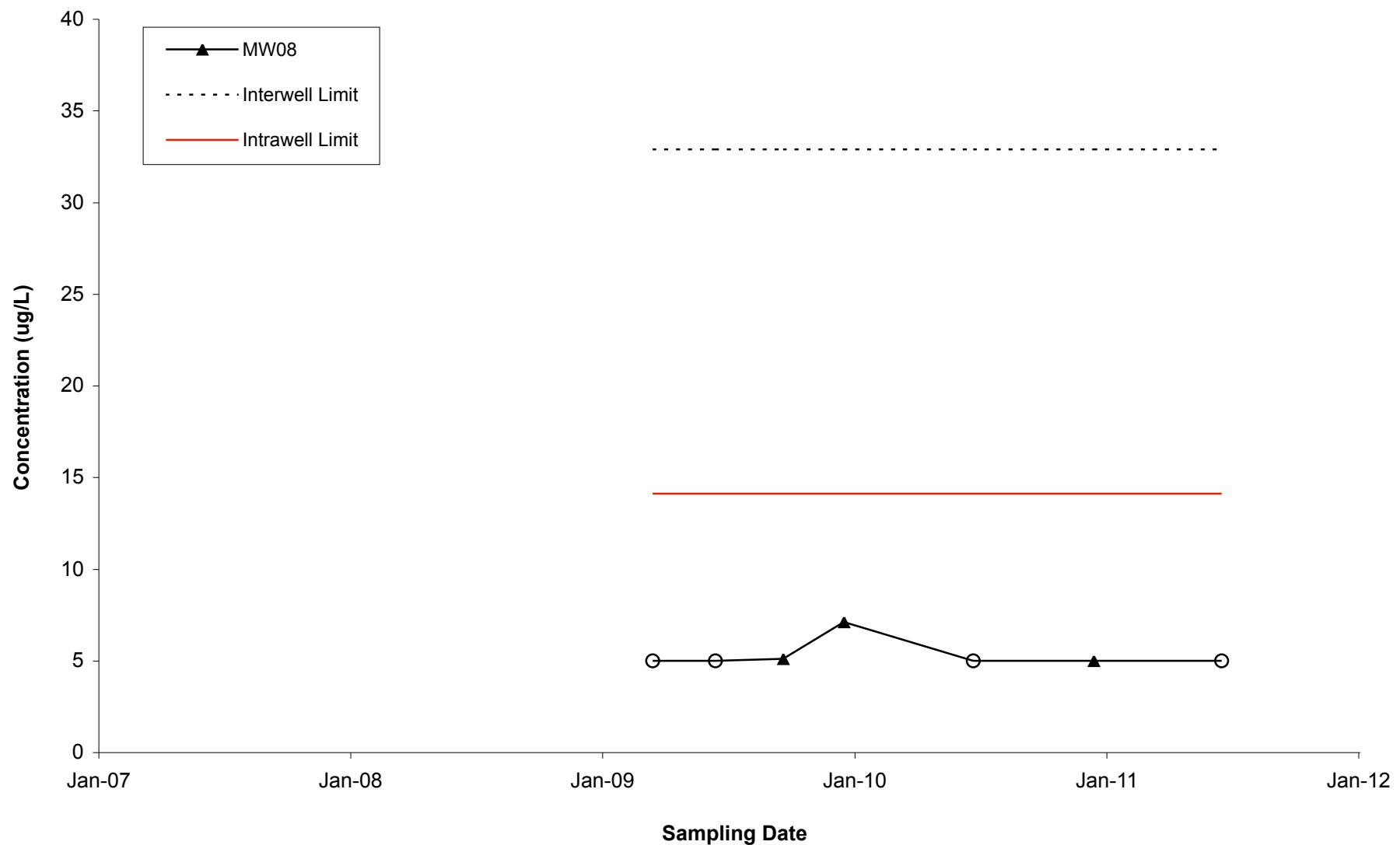
**1,1-Dichloroethane in Well MW08**  
**IPC/Roto-Rooter Landfill**

Note: Non-detects are marked with a clear circle.



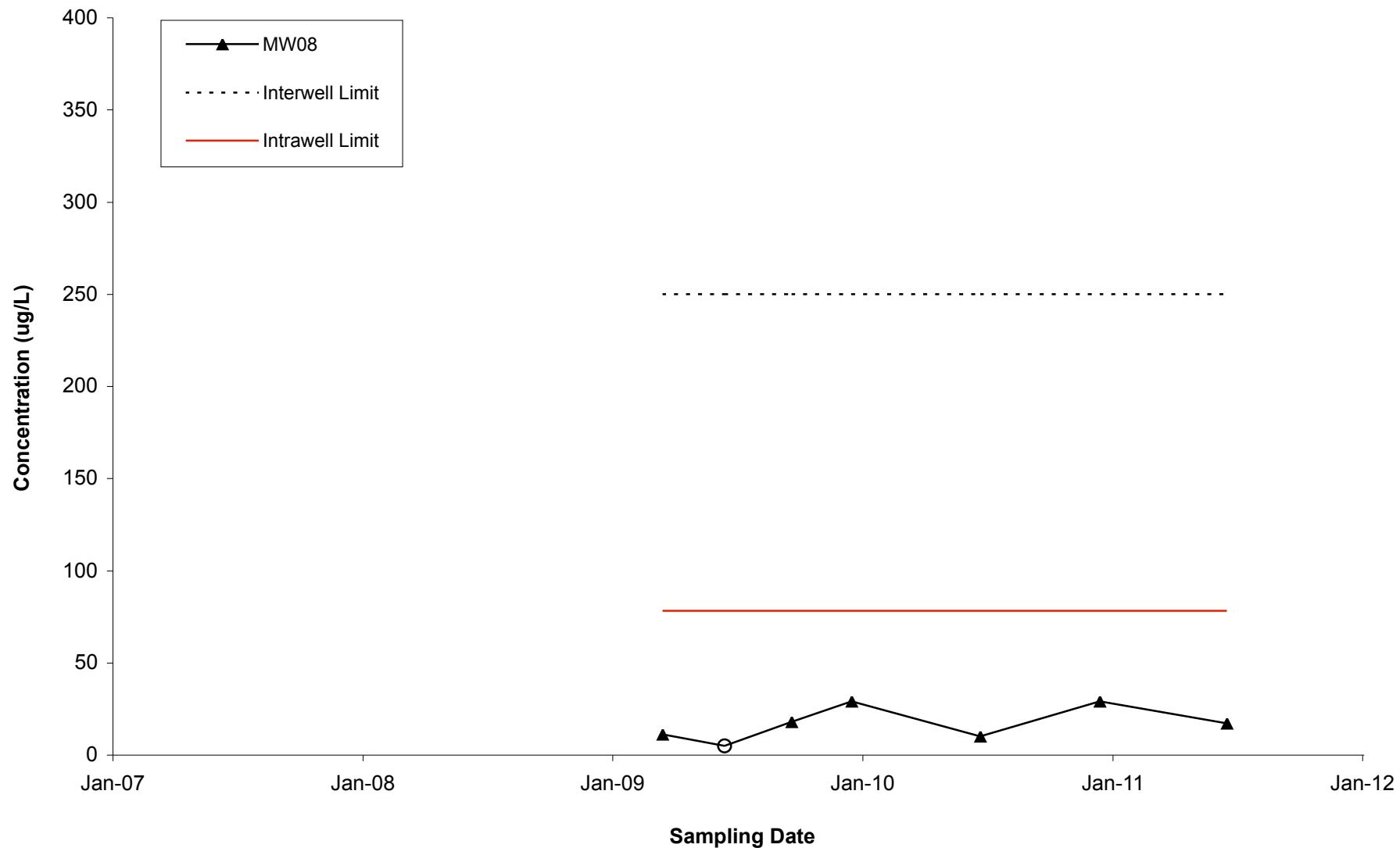
**1,1-Dichloroethene in Well MW08**  
**IPC/Roto-Rooter Landfill**

Note: Non-detects are  
marked with a clear circle.



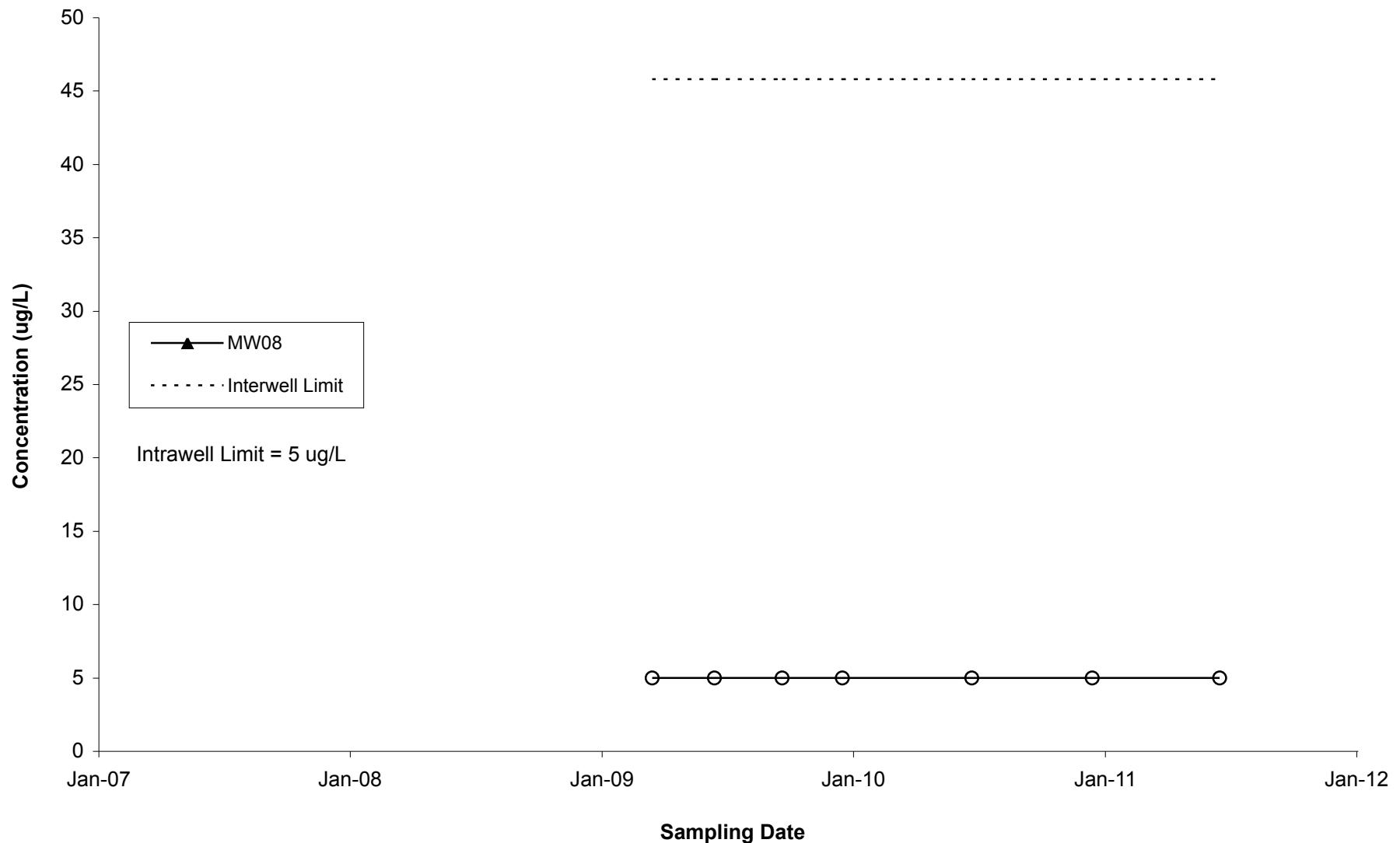
**cis-1,2-Dichloroethene in Well MW08**  
**IPC/Roto-Rooter Landfill**

Note: Non-detects are  
marked with a clear circle.



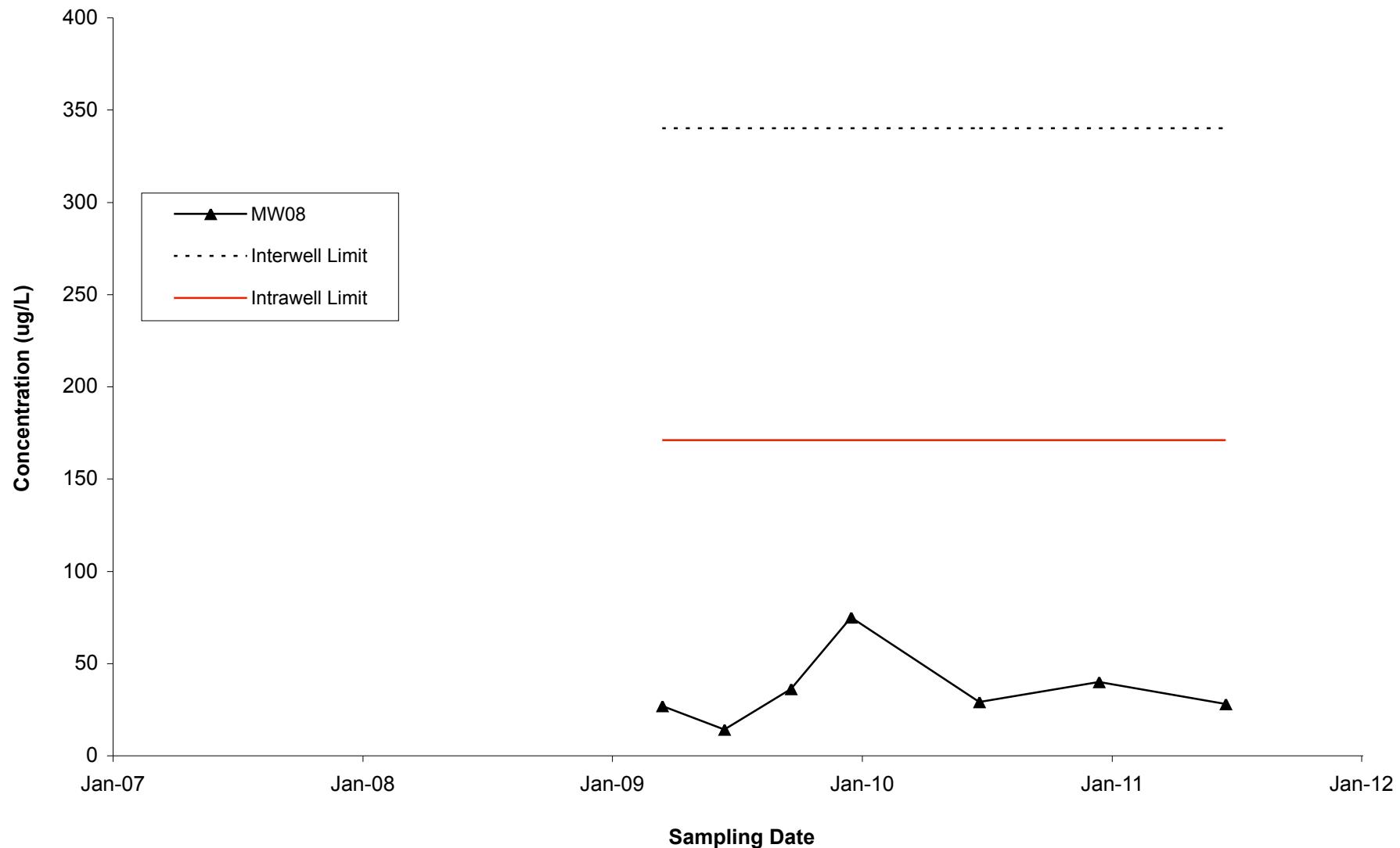
**Tetrachloroethene in Well MW08**  
**IPC/Roto-Rooter Landfill**

Note: Non-detects are  
marked with a clear circle.



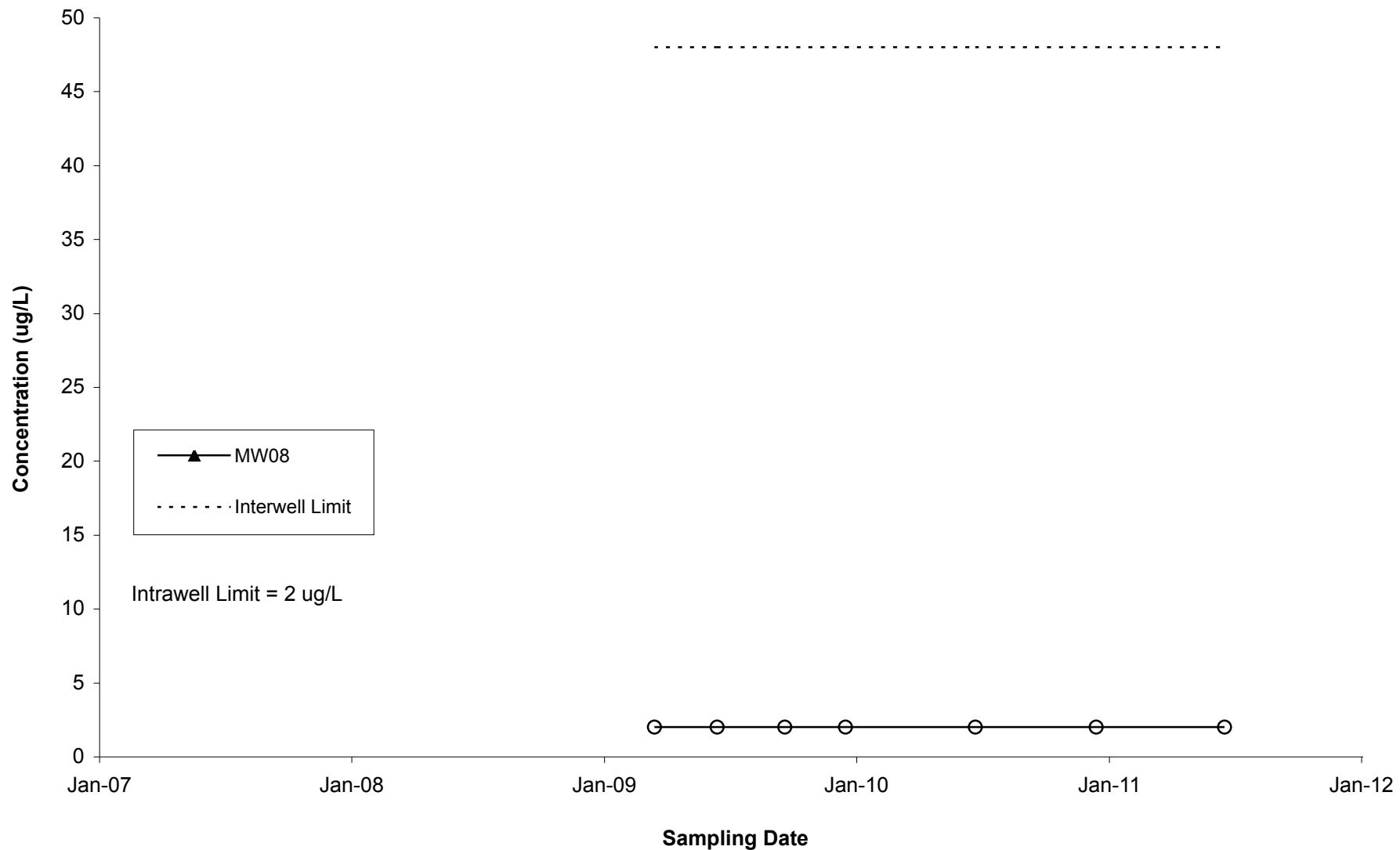
**Trichloroethene in Well MW08**  
**IPC/Roto-Rooter Landfill**

Note: Non-detects are  
marked with a clear circle.



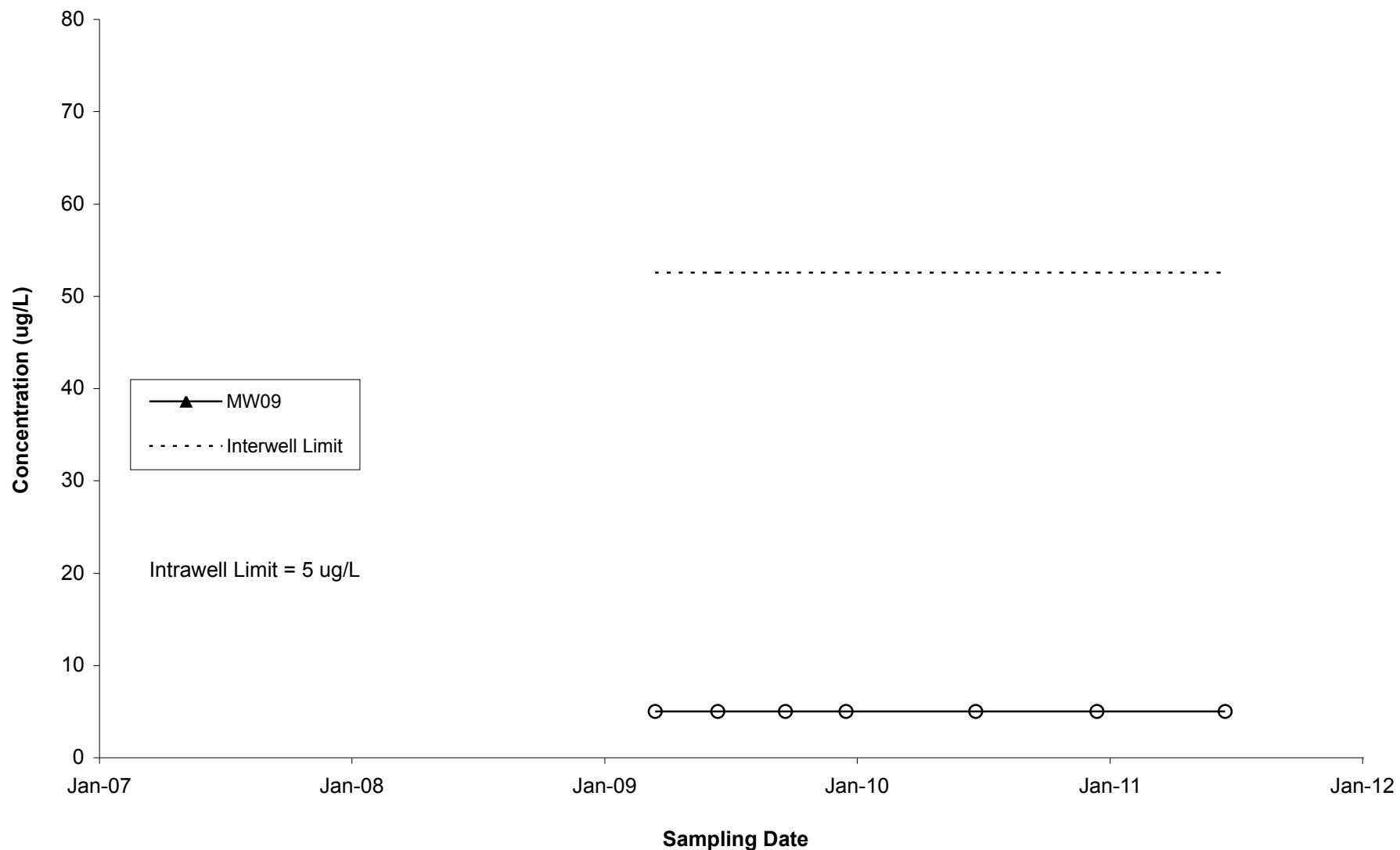
## **Vinyl Chloride in Well MW08 IPC/Roto-Rooter Landfill**

Note: Non-detects are marked with a clear circle.



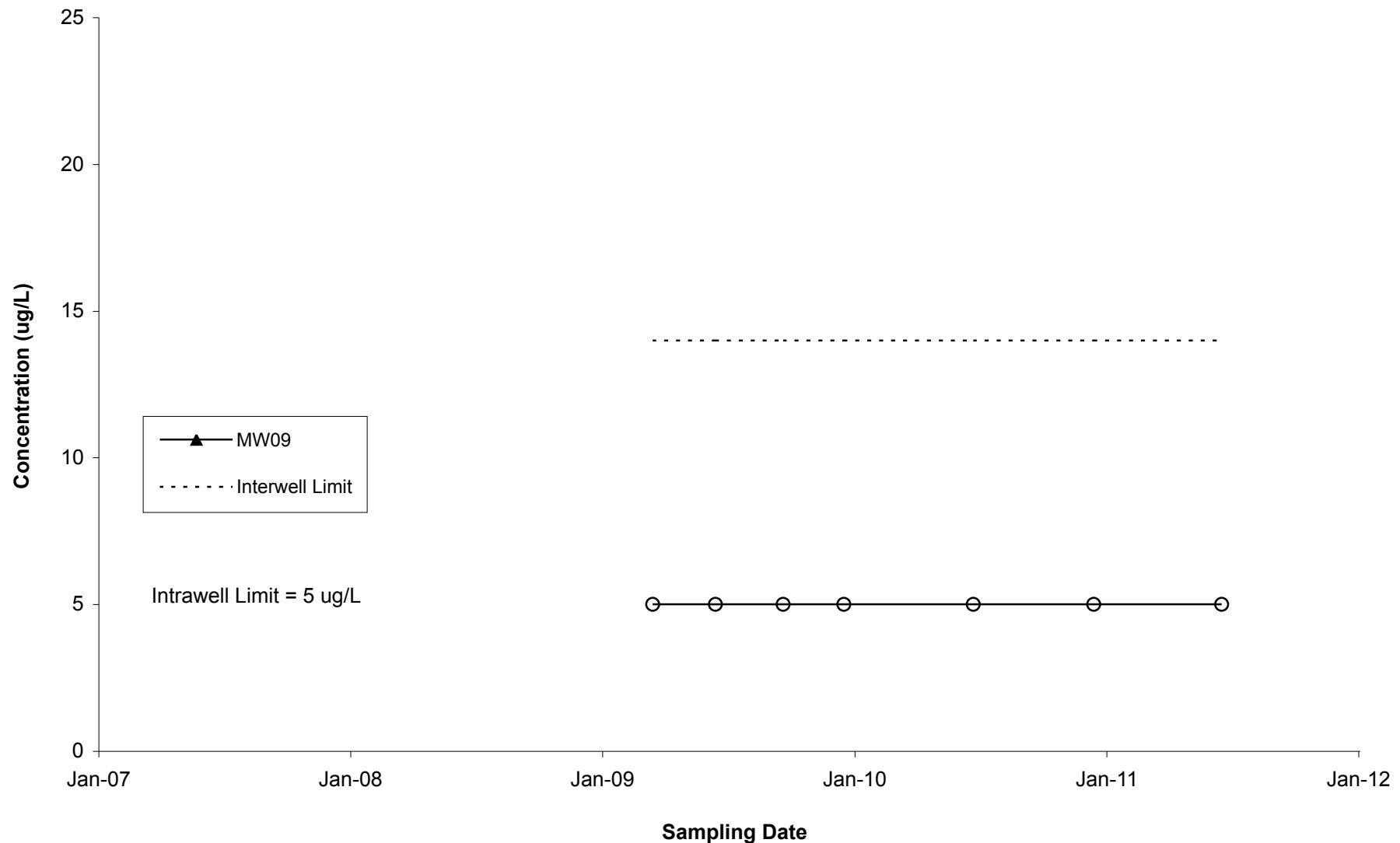
**1,1,1-Trichloroethane in Well MW09**  
**IPC/Roto-Rooter Landfill**

Note: Non-detects are  
marked with a clear circle.



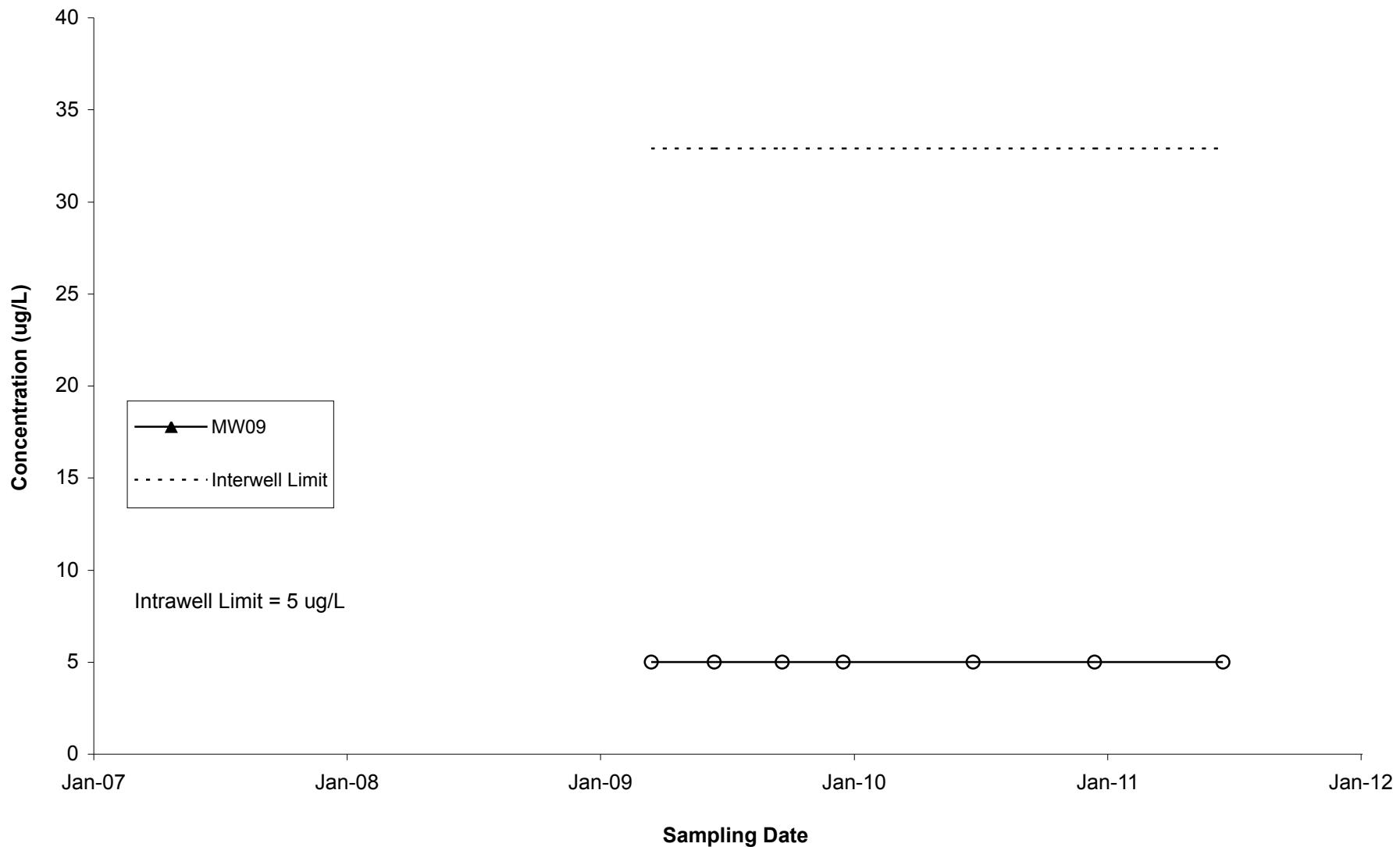
**1,1-Dichloroethane in Well MW09**  
**IPC/Roto-Rooter Landfill**

Note: Non-detects are  
marked with a clear circle.



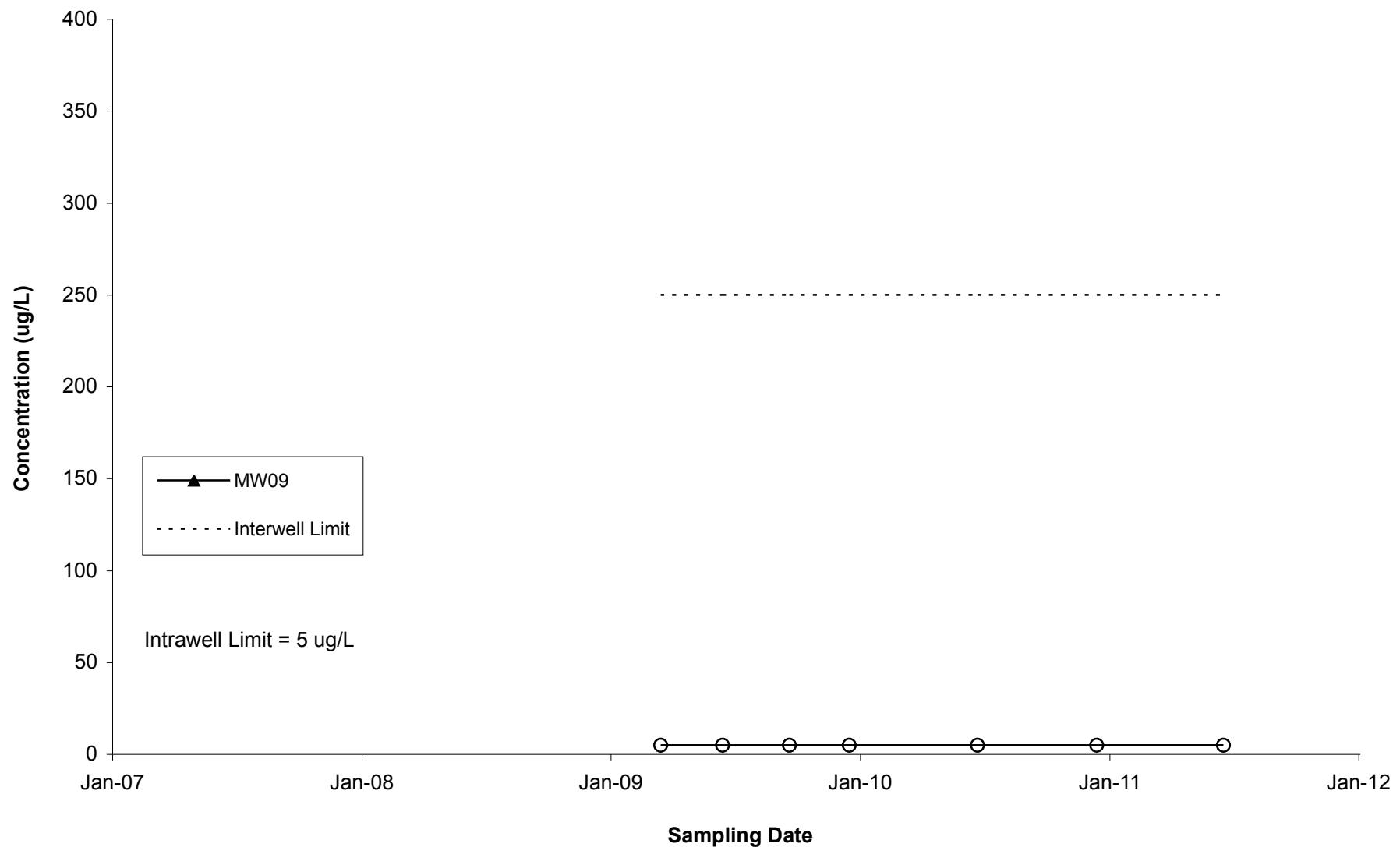
## **1,1-Dichloroethene in Well MW09 IPC/Roto-Rooter Landfill**

Note: Non-detects are marked with a clear circle.



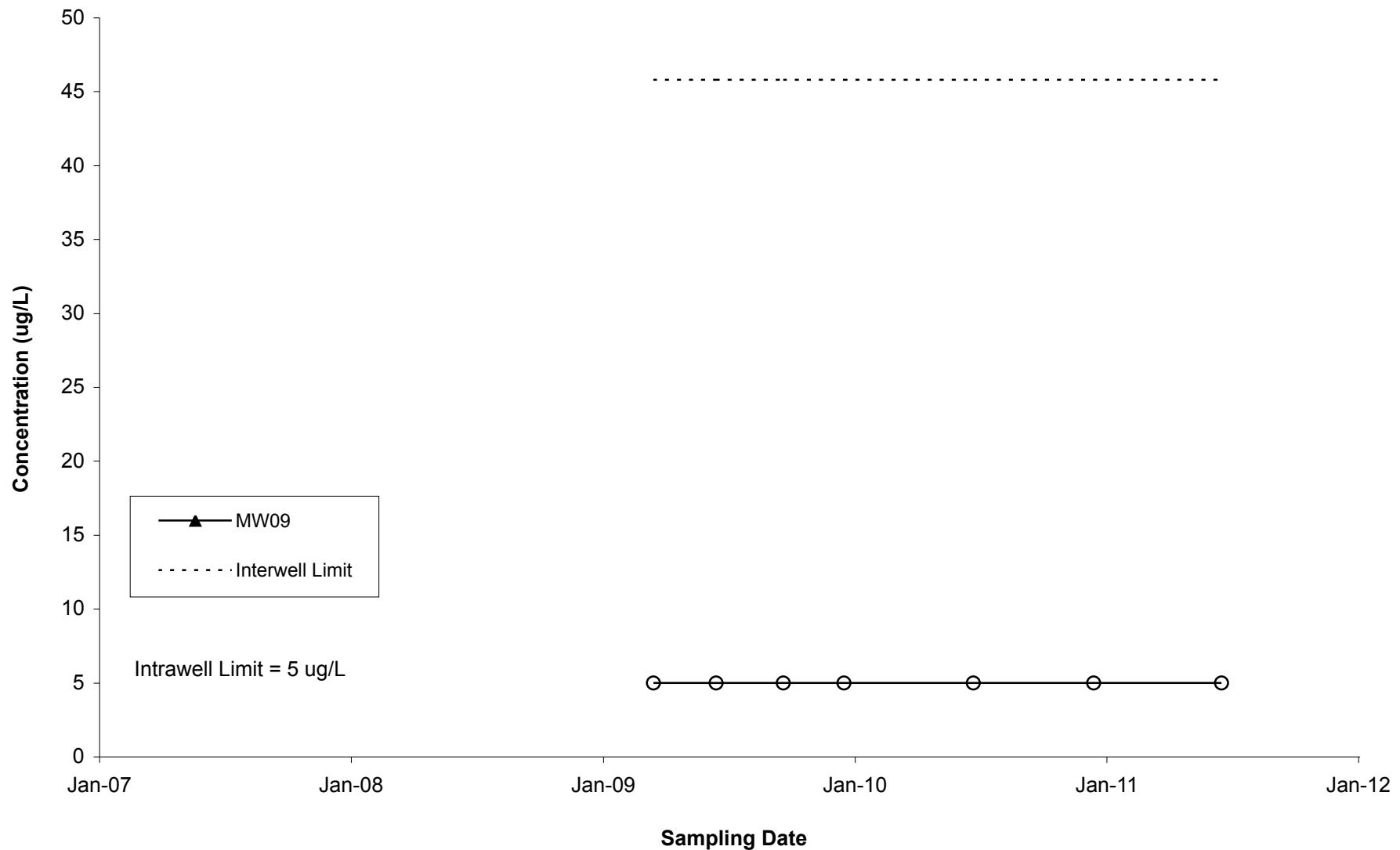
**cis-1,2-Dichloroethene in Well MW09**  
**IPC/Roto-Rooter Landfill**

Note: Non-detects are  
marked with a clear circle.



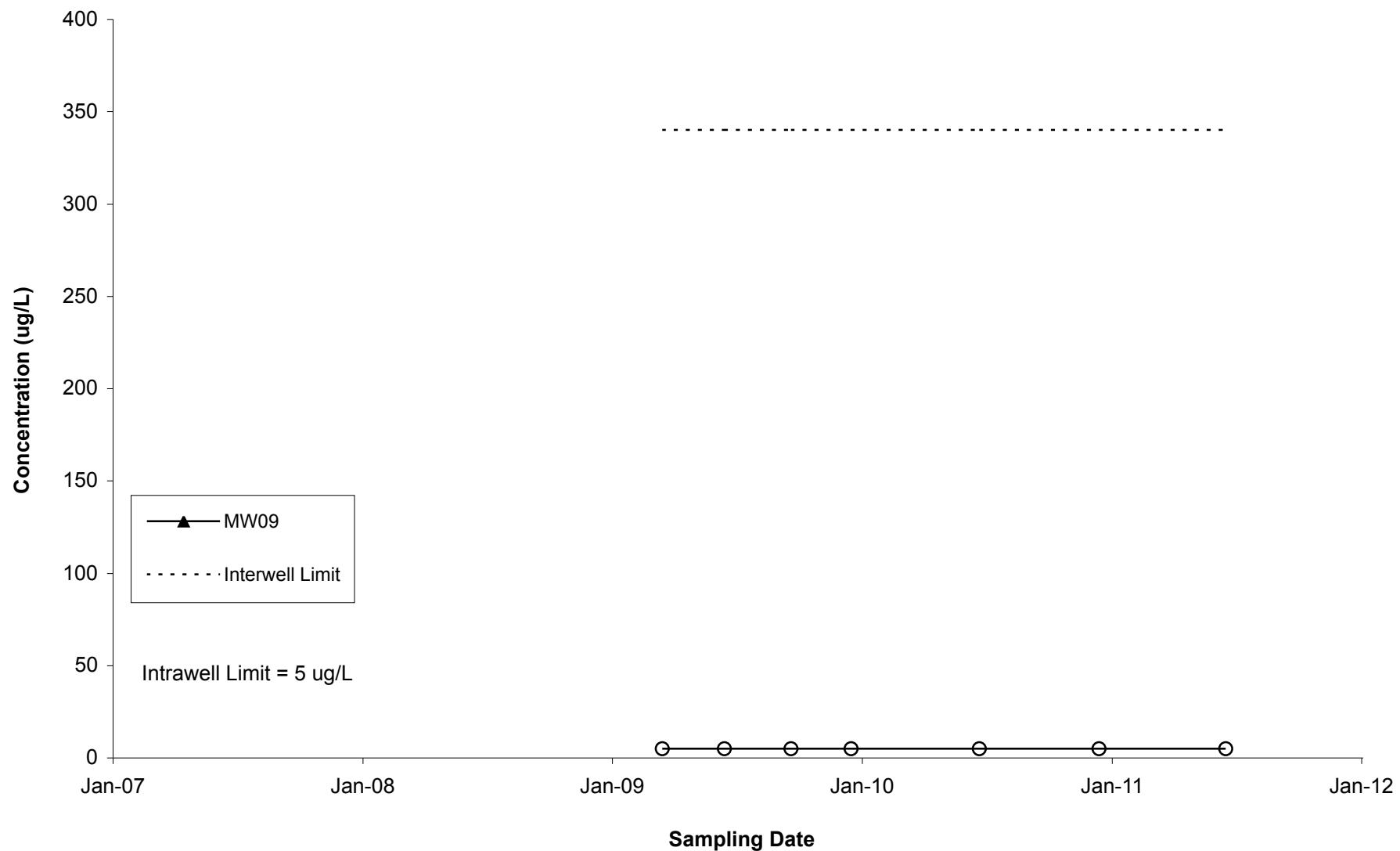
**Tetrachloroethene in Well MW09**  
**IPC/Roto-Rooter Landfill**

Note: Non-detects are  
marked with a clear circle.



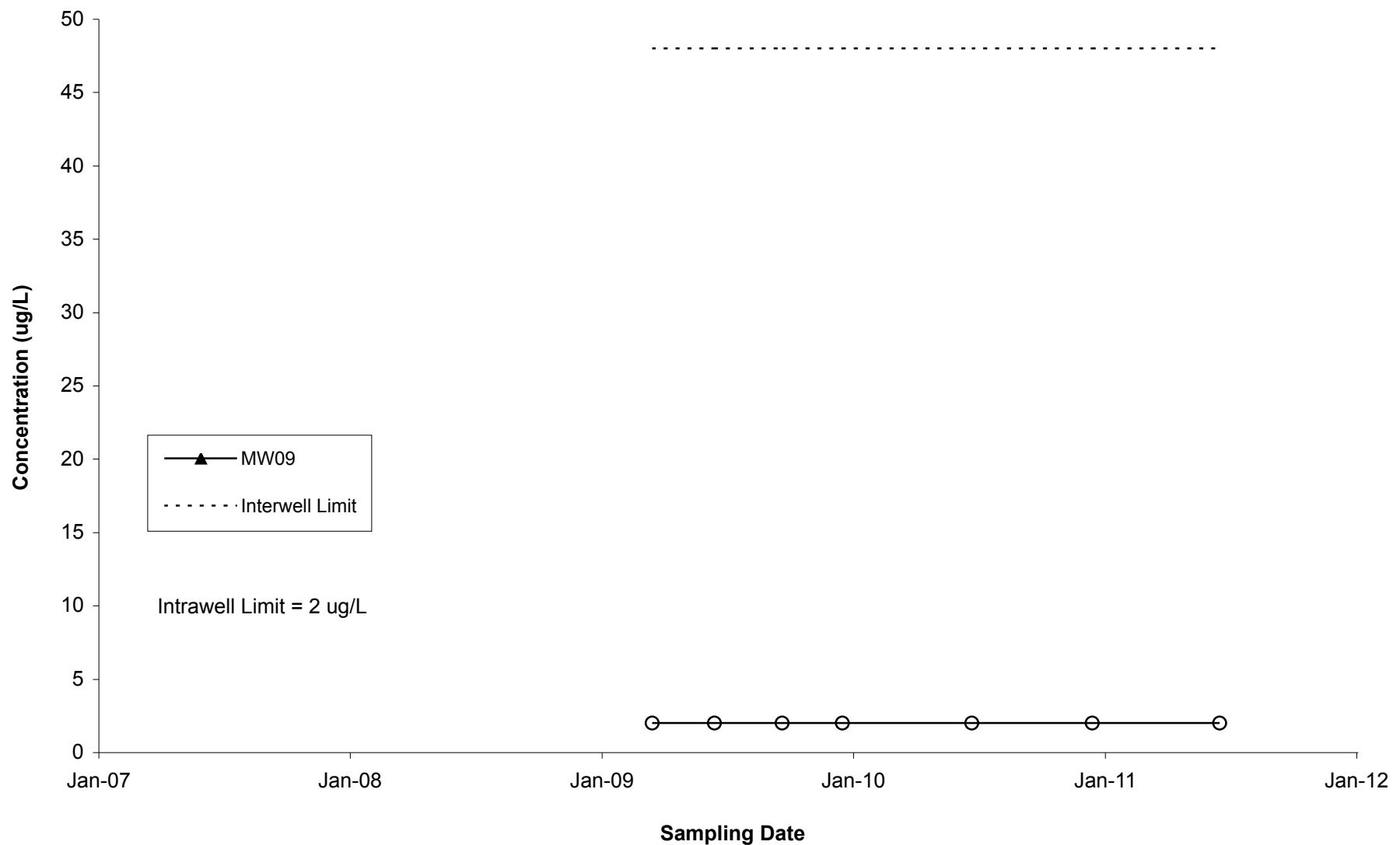
**Trichloroethene in Well MW09**  
**IPC/Roto-Rooter Landfill**

Note: Non-detects are  
marked with a clear circle.



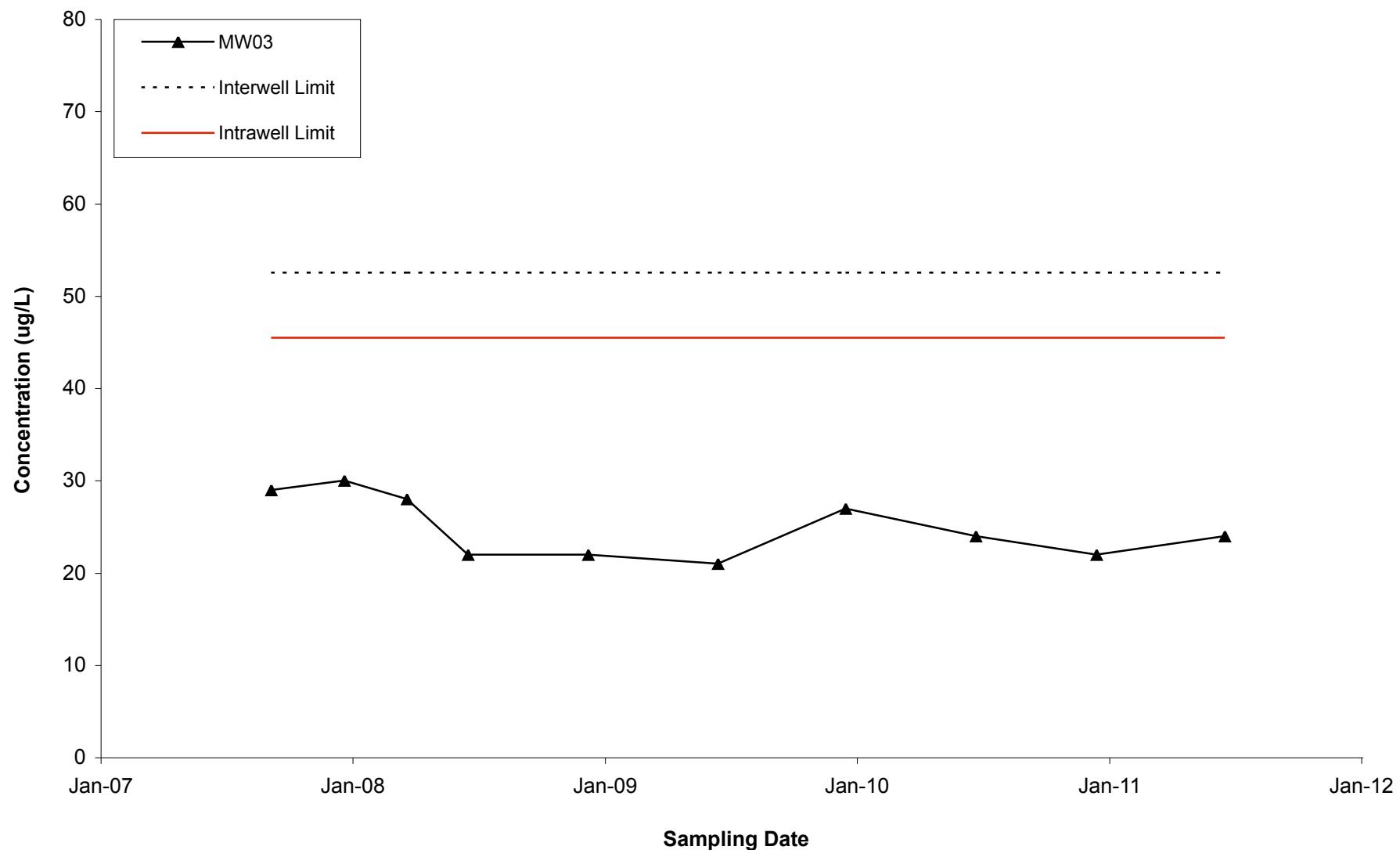
**Vinyl Chloride in Well MW09**  
**IPC/Roto-Rooter Landfill**

Note: Non-detects are  
marked with a clear circle.



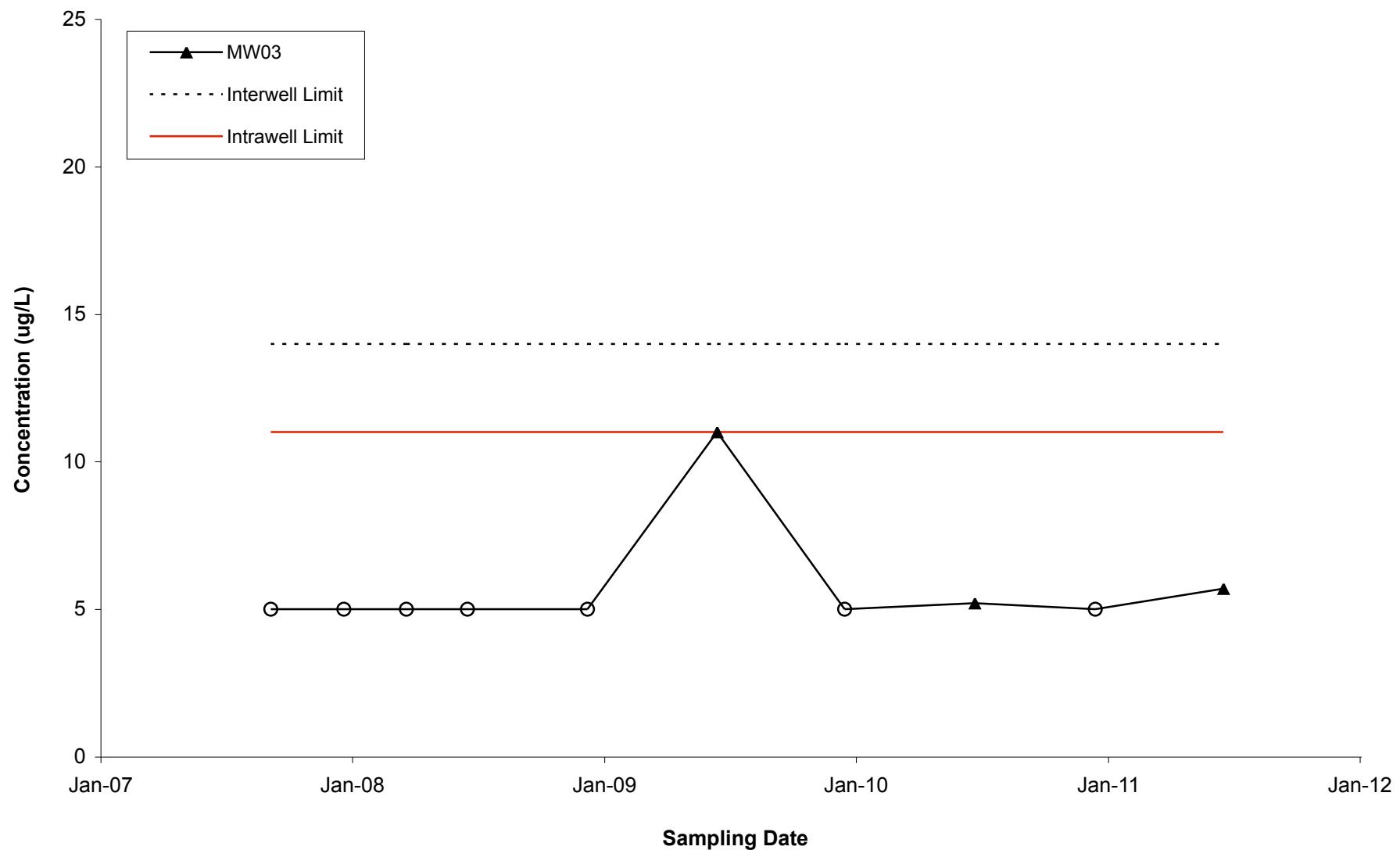
**1,1,1-Trichloroethane in Well MW03**  
**IPC/Roto-Rooter Landfill**

Note: Non-detects are  
marked with a clear circle.



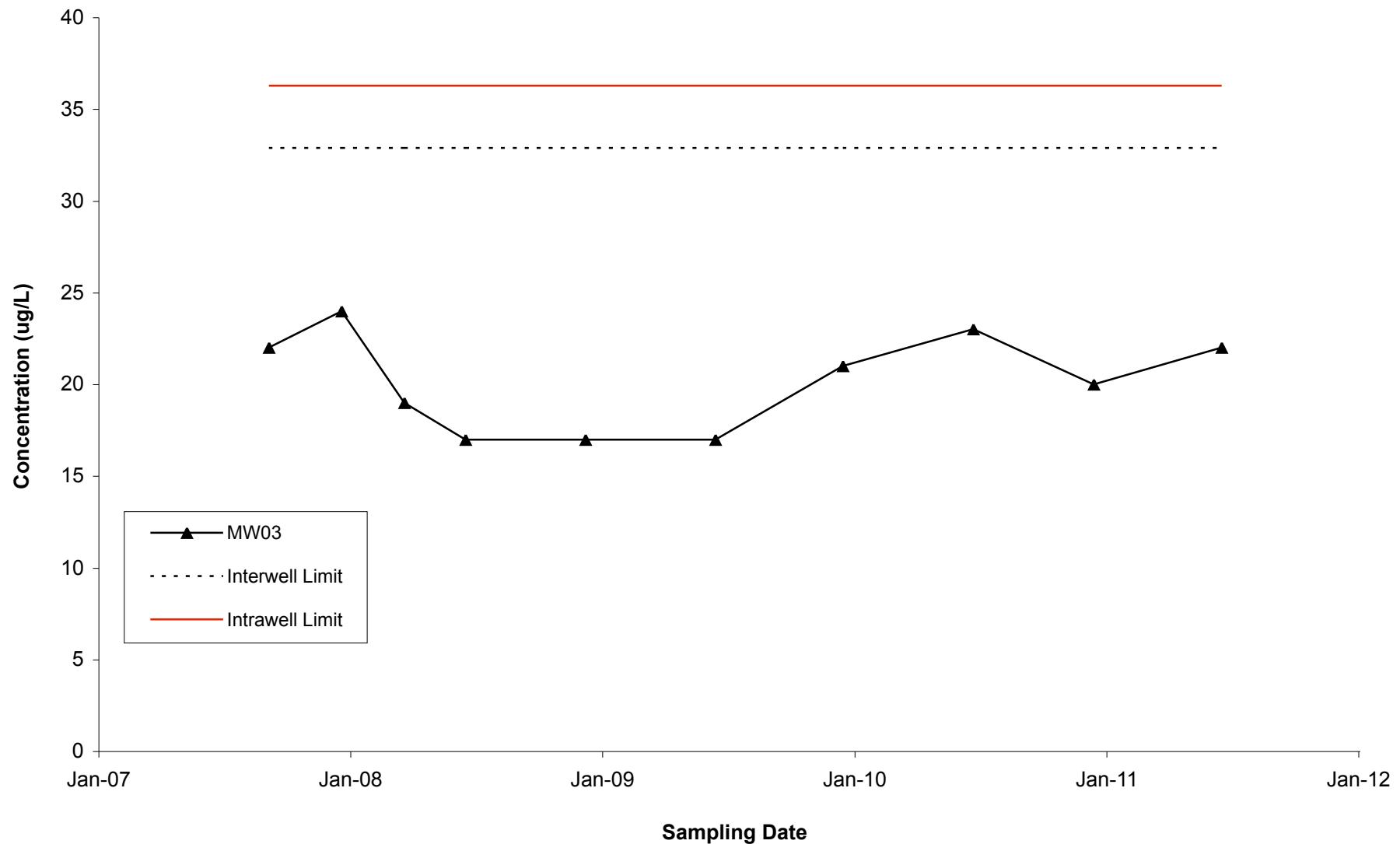
**1,1-Dichloroethane in Well MW03**  
**IPC/Roto-Rooter Landfill**

Note: Non-detects are  
marked with a clear circle.



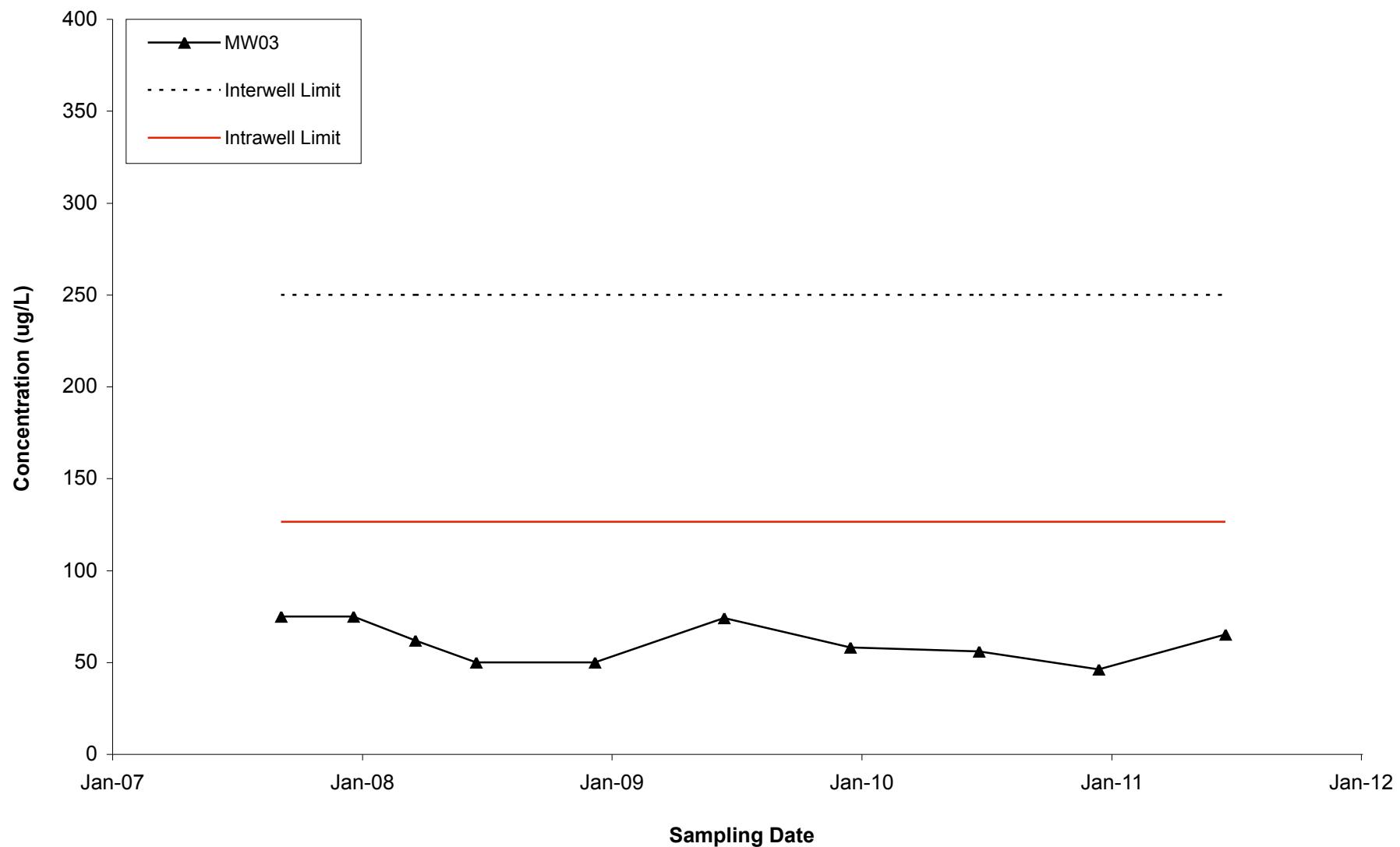
**1,1-Dichloroethene in Well MW03**  
**IPC/Roto-Rooter Landfill**

Note: Non-detects are  
marked with a clear circle.



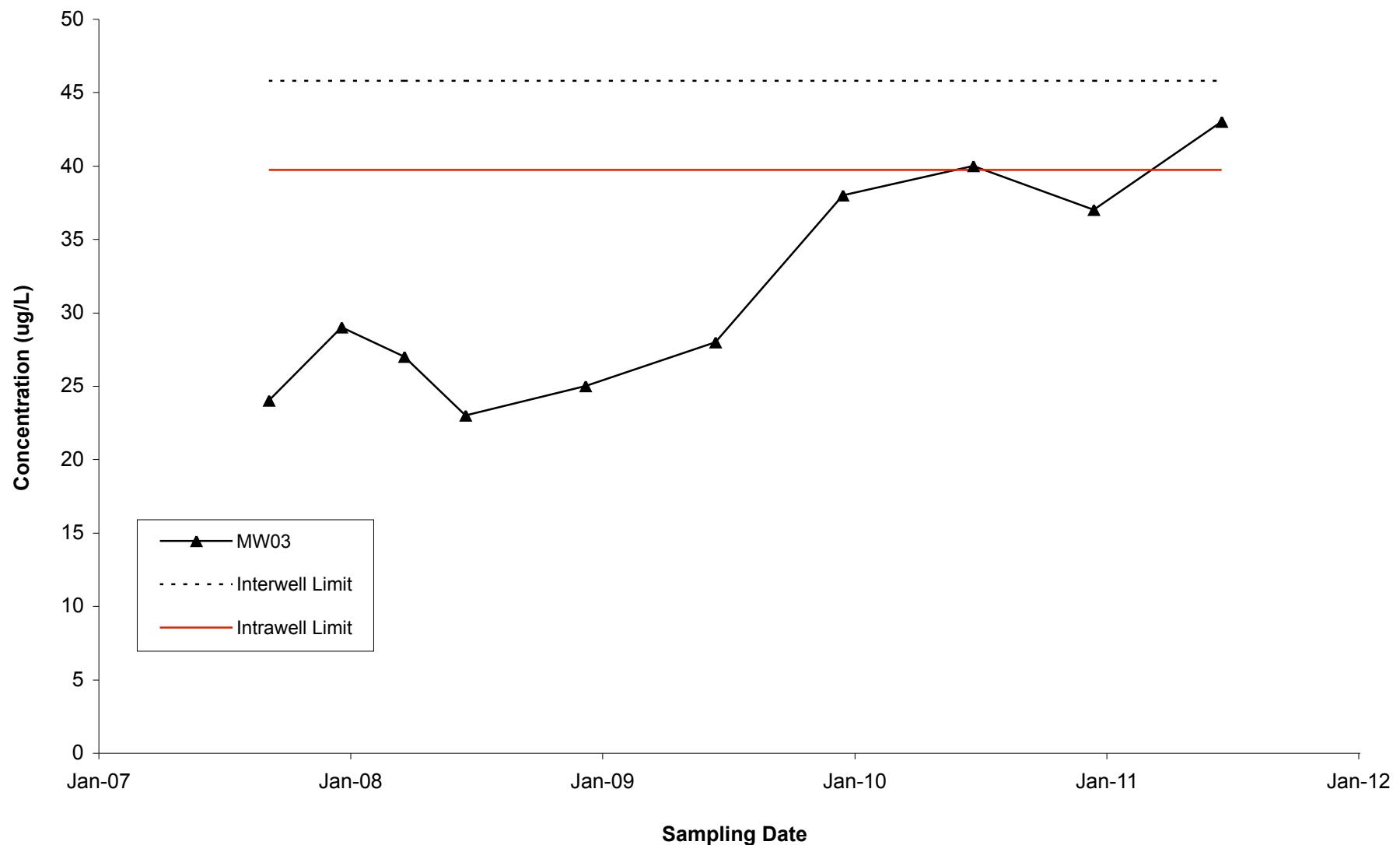
**cis-1,2-Dichloroethene in Well MW03**  
**IPC/Roto-Rooter Landfill**

Note: Non-detects are  
marked with a clear circle.



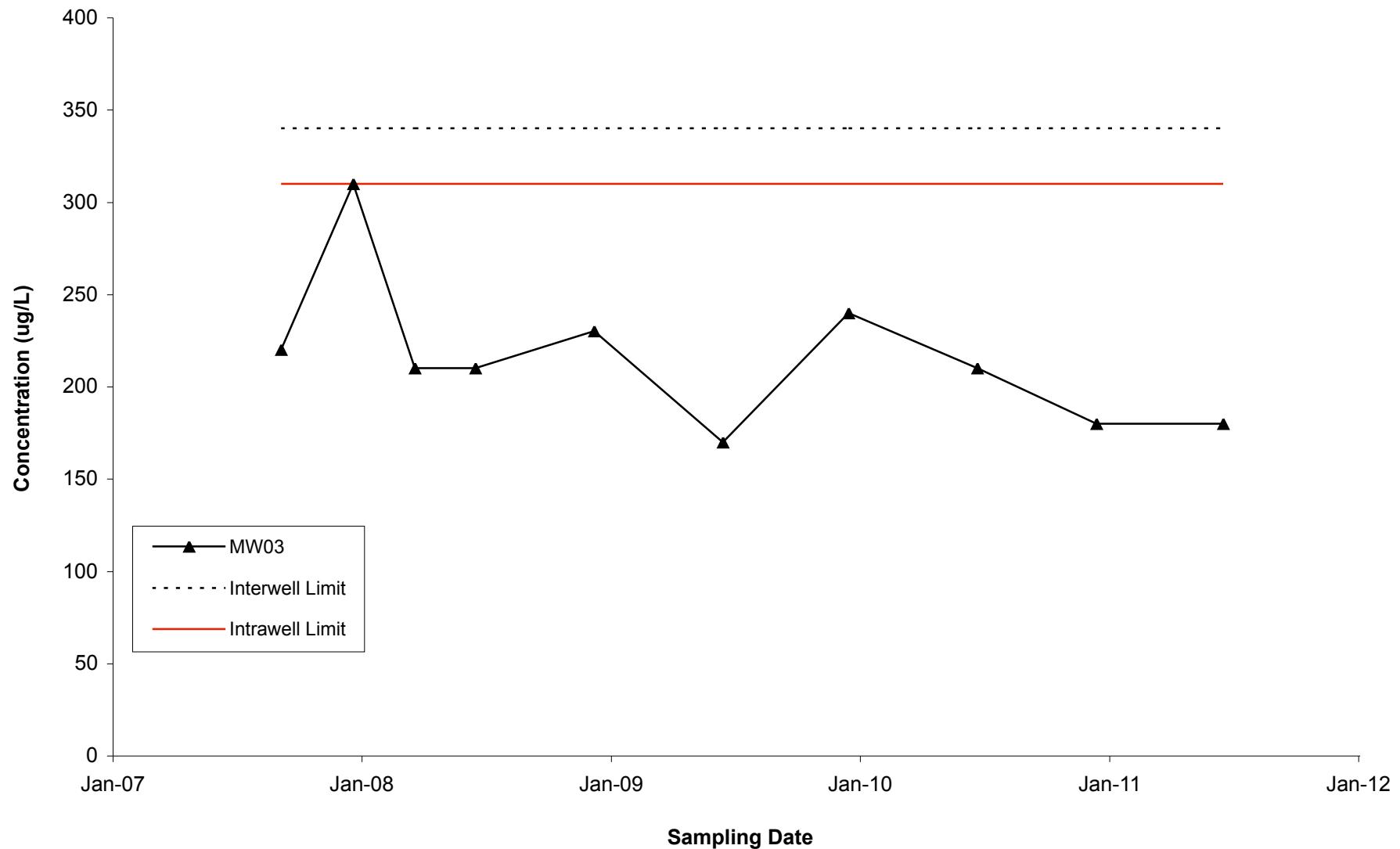
**Tetrachloroethene in Well MW03**  
**IPC/Roto-Rooter Landfill**

Note: Non-detects are  
marked with a clear circle.



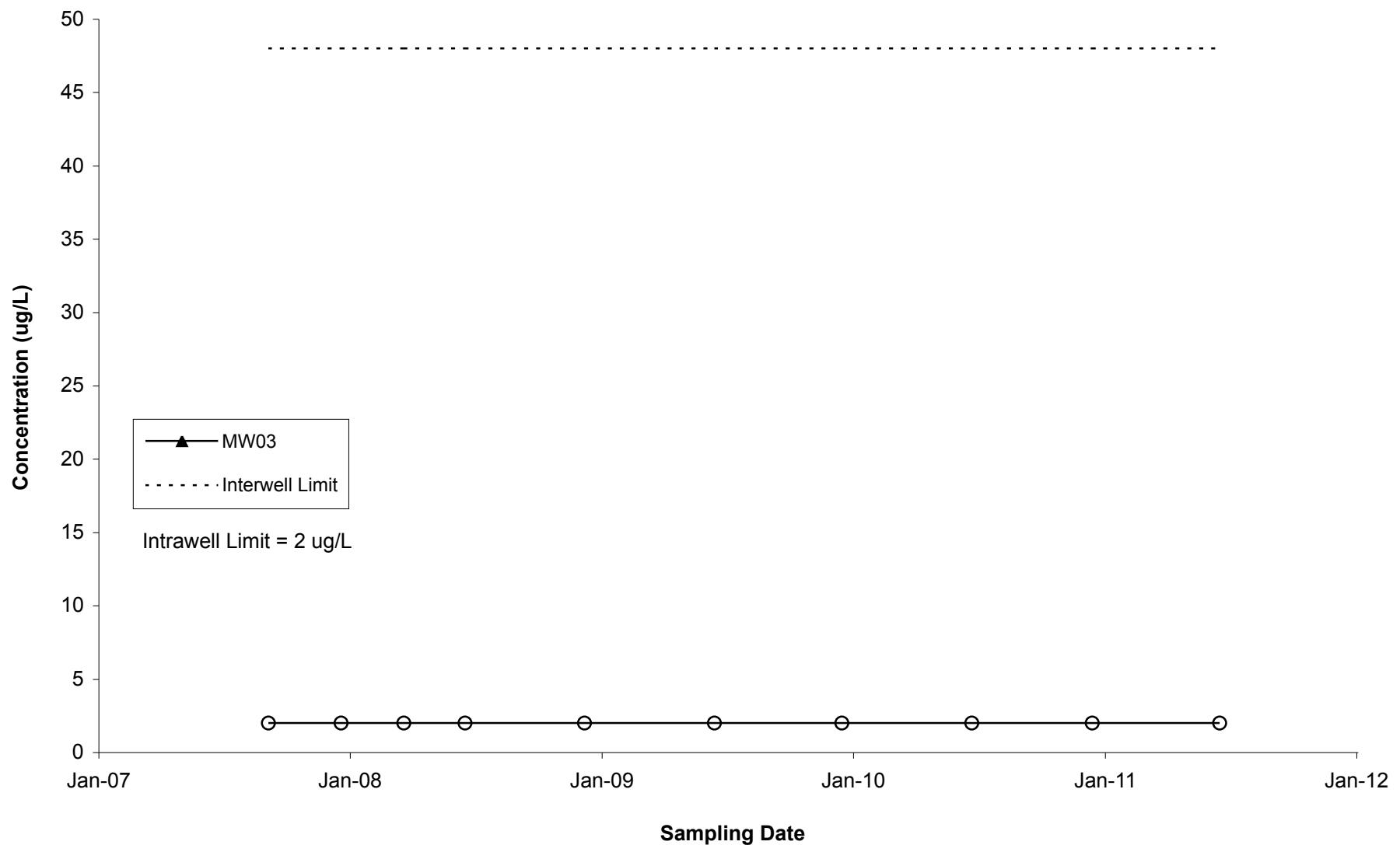
**Trichloroethene in Well MW03**  
**IPC/Roto-Rooter Landfill**

Note: Non-detects are  
marked with a clear circle.



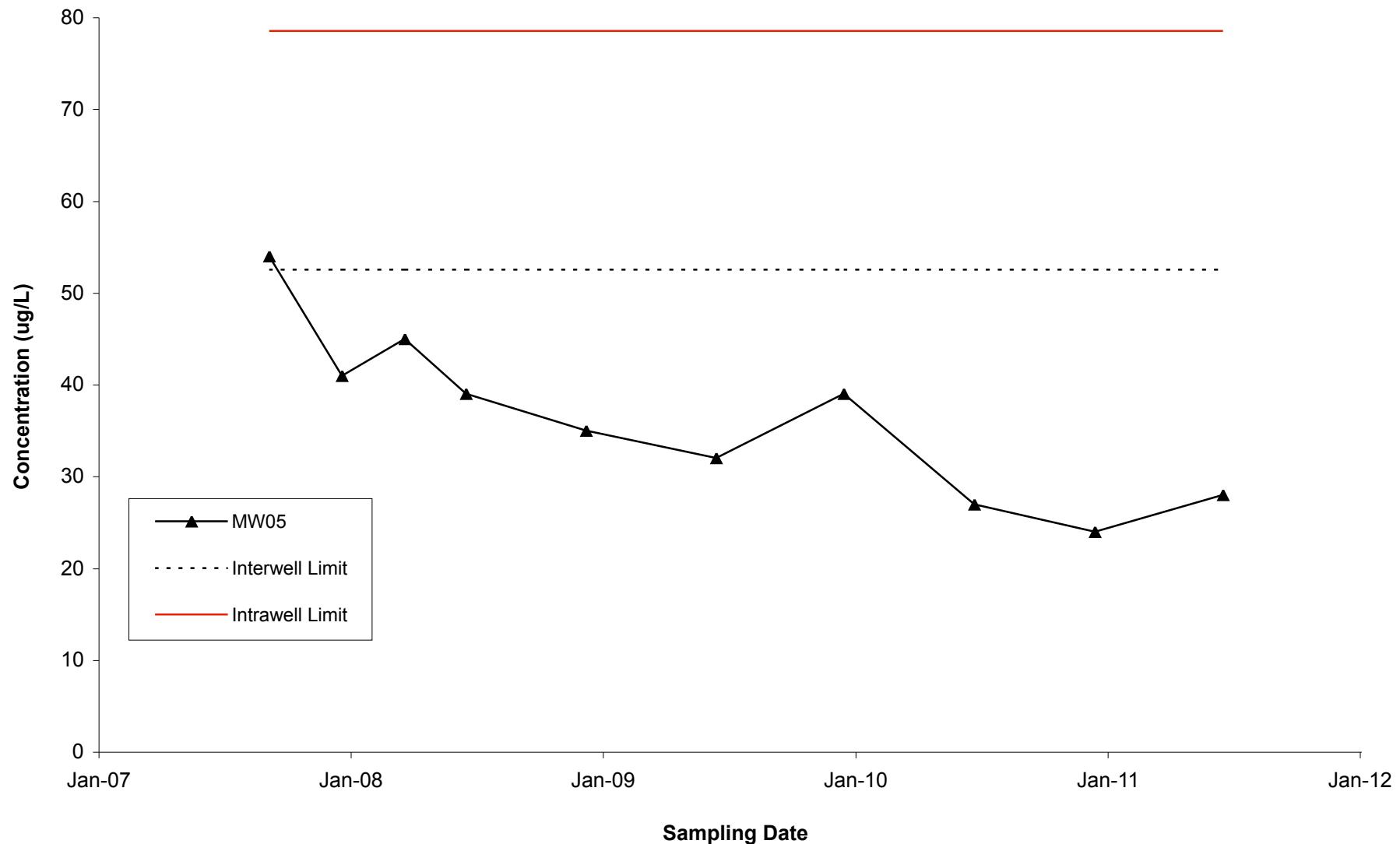
**Vinyl Chloride in Well MW03**  
**IPC/Roto-Rooter Landfill**

Note: Non-detects are  
marked with a clear circle.



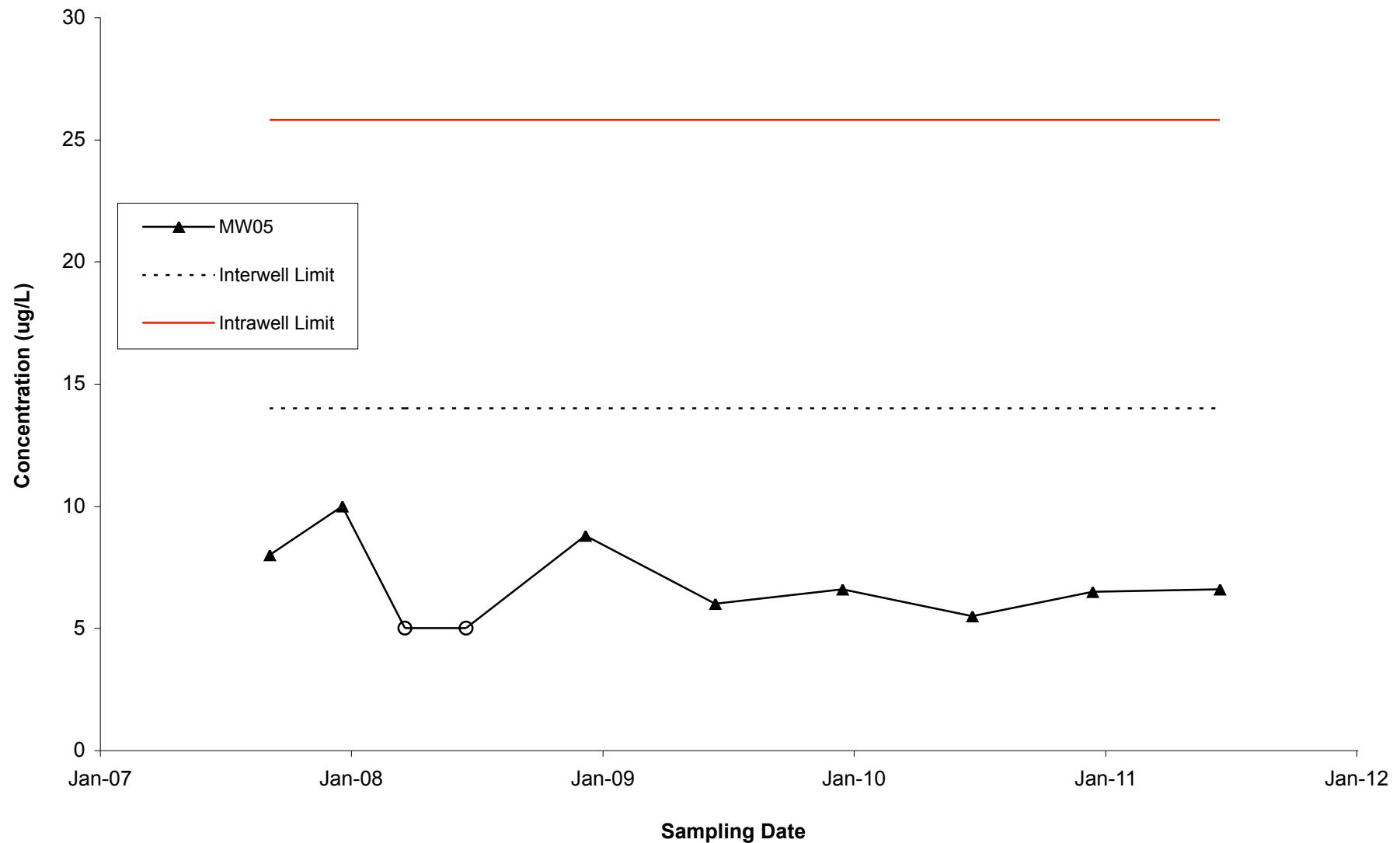
**1,1,1-Trichloroethane in Well MW05**  
**IPC/Roto-Rooter Landfill**

Note: Non-detects are  
marked with a clear circle.



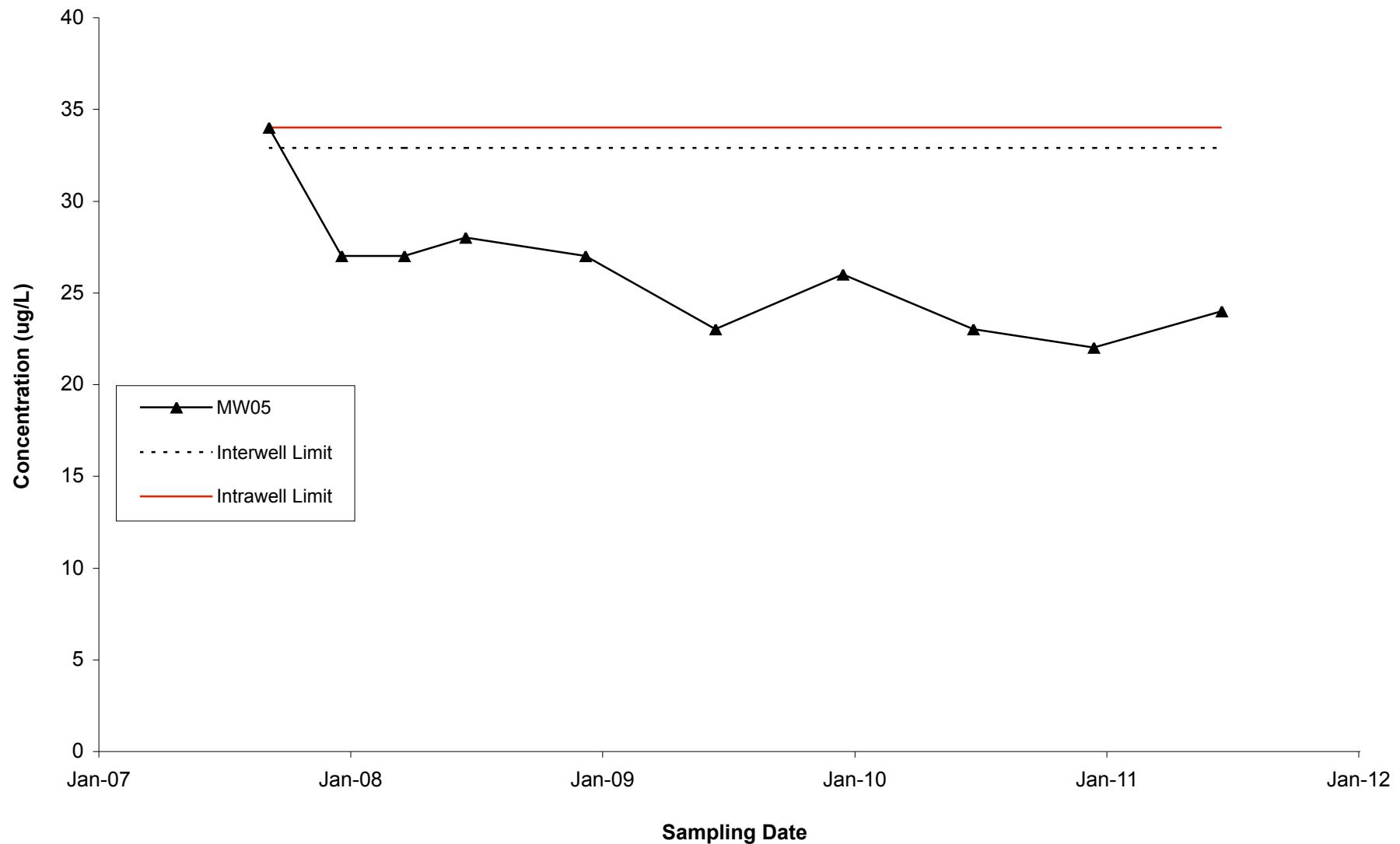
**1,1-Dichloroethane in Well MW05**  
**IPC/Roto-Rooter Landfill**

Note: Non-detects are marked with a clear circle.



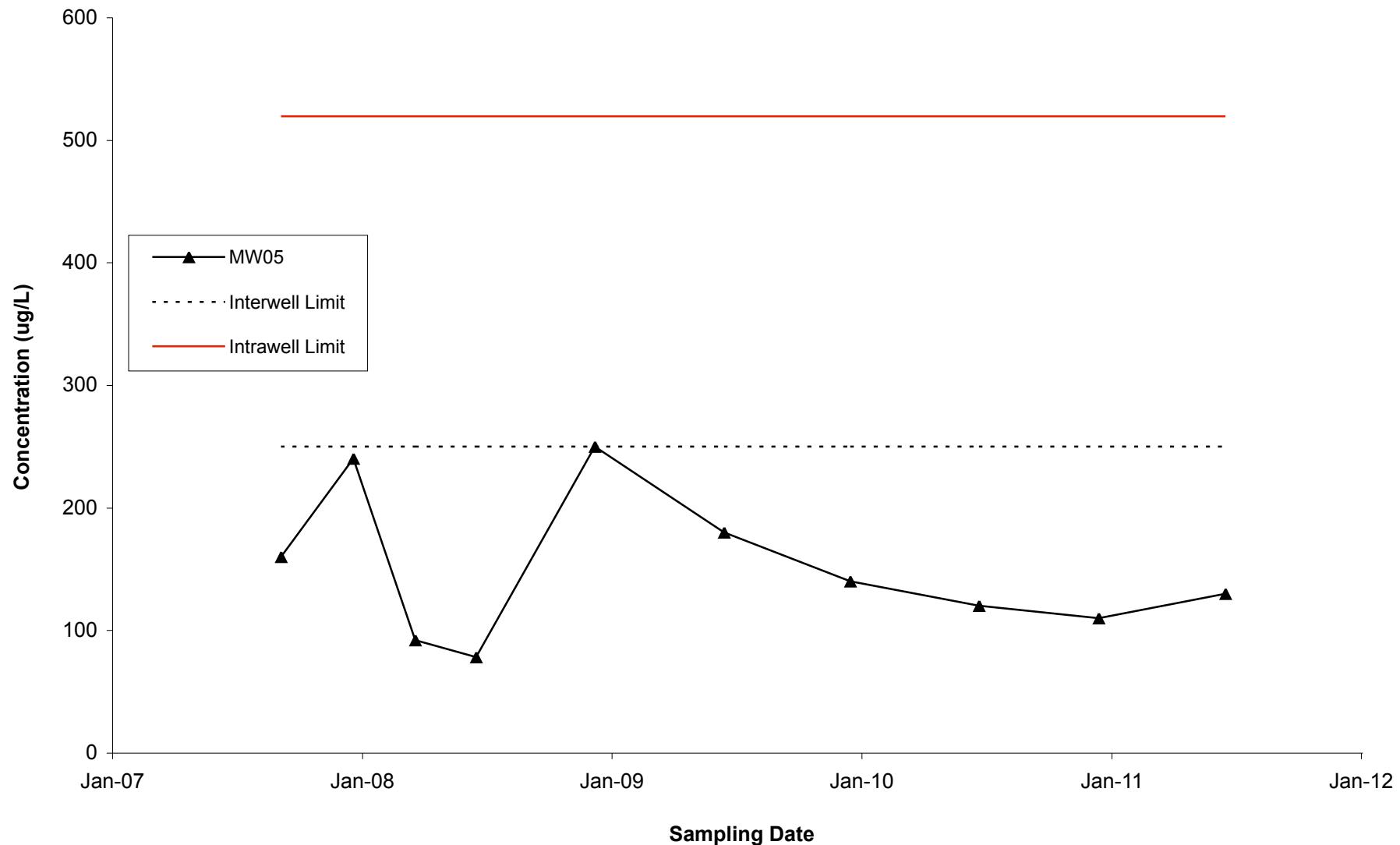
**1,1-Dichloroethene in Well MW05**  
**IPC/Roto-Rooter Landfill**

Note: Non-detects are  
marked with a clear circle.



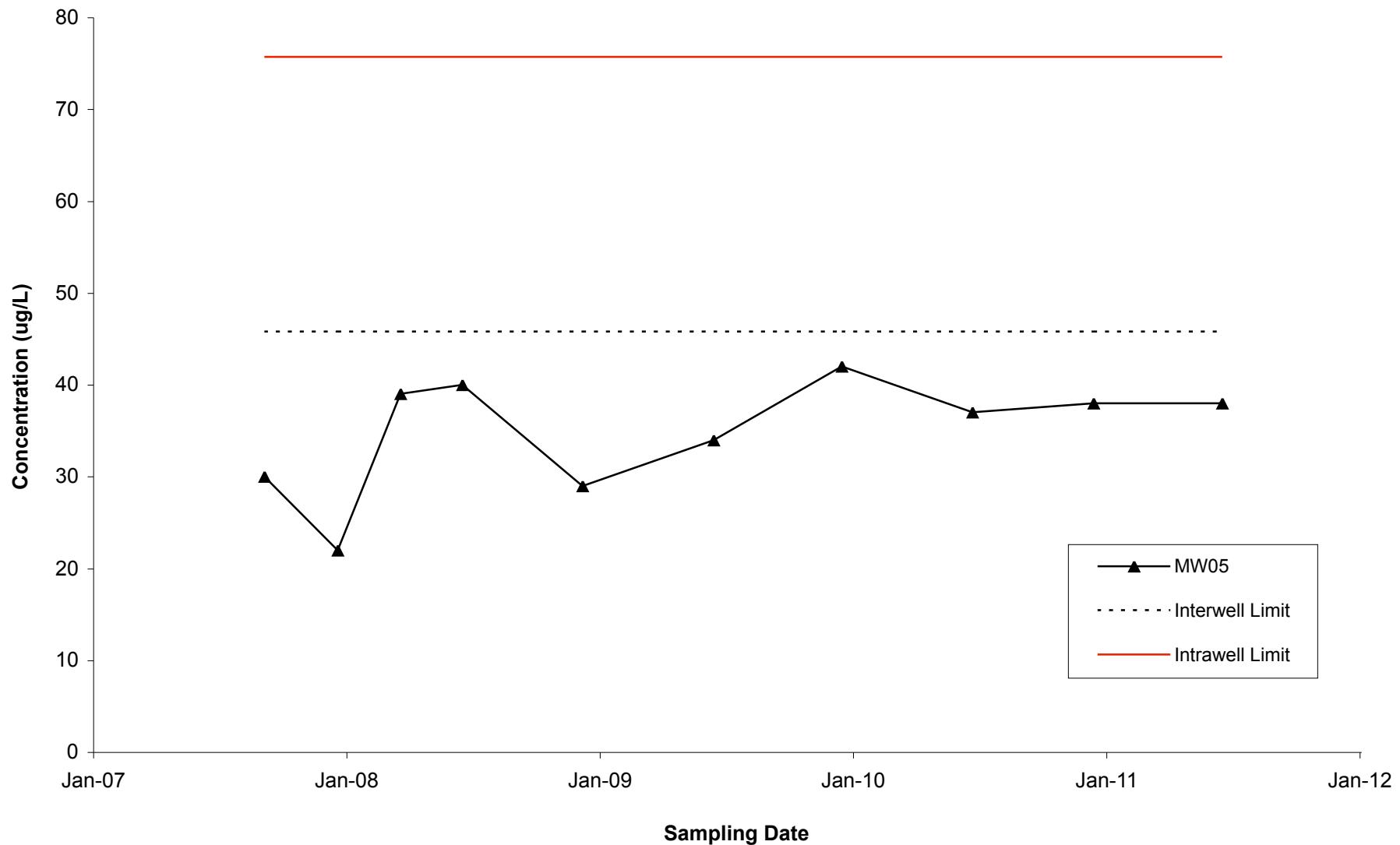
**cis-1,2-Dichloroethene in Well MW05  
IPC/Roto-Rooter Landfill**

Note: Non-detects are marked with a clear circle.



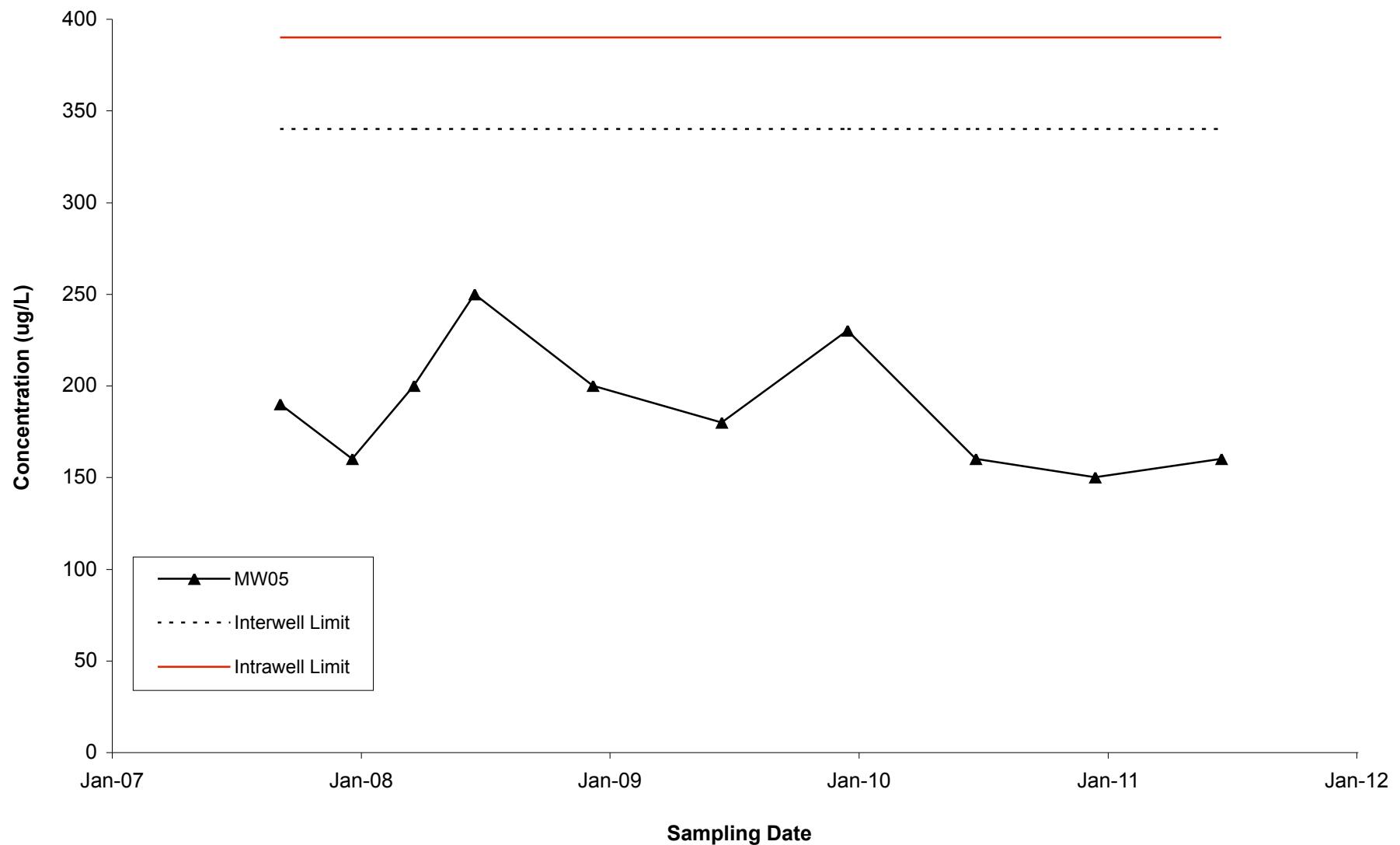
**Tetrachloroethene in Well MW05**  
**IPC/Roto-Rooter Landfill**

Note: Non-detects are  
marked with a clear circle.



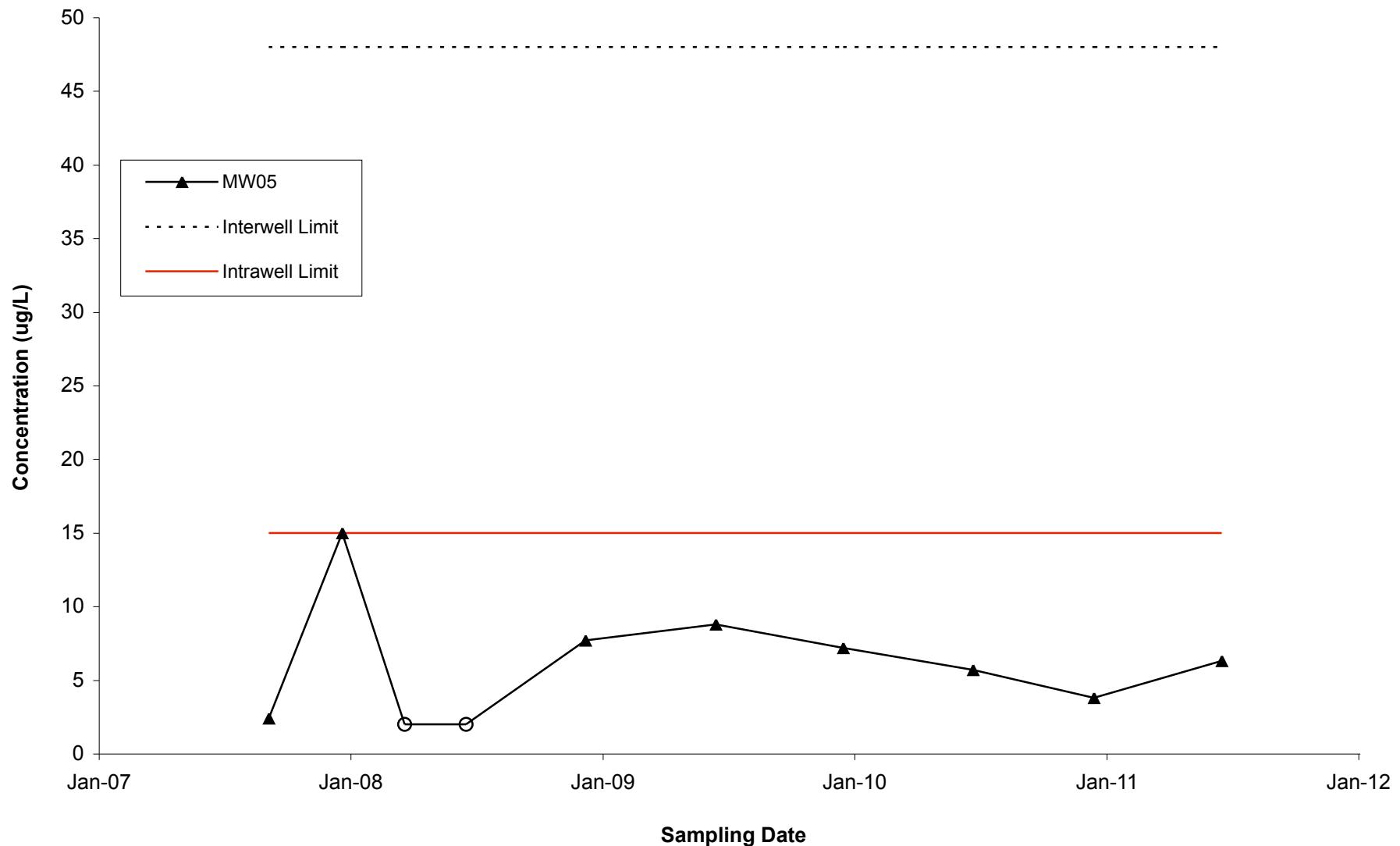
**Trichloroethene in Well MW05**  
**IPC/Roto-Rooter Landfill**

Note: Non-detects are  
marked with a clear circle.



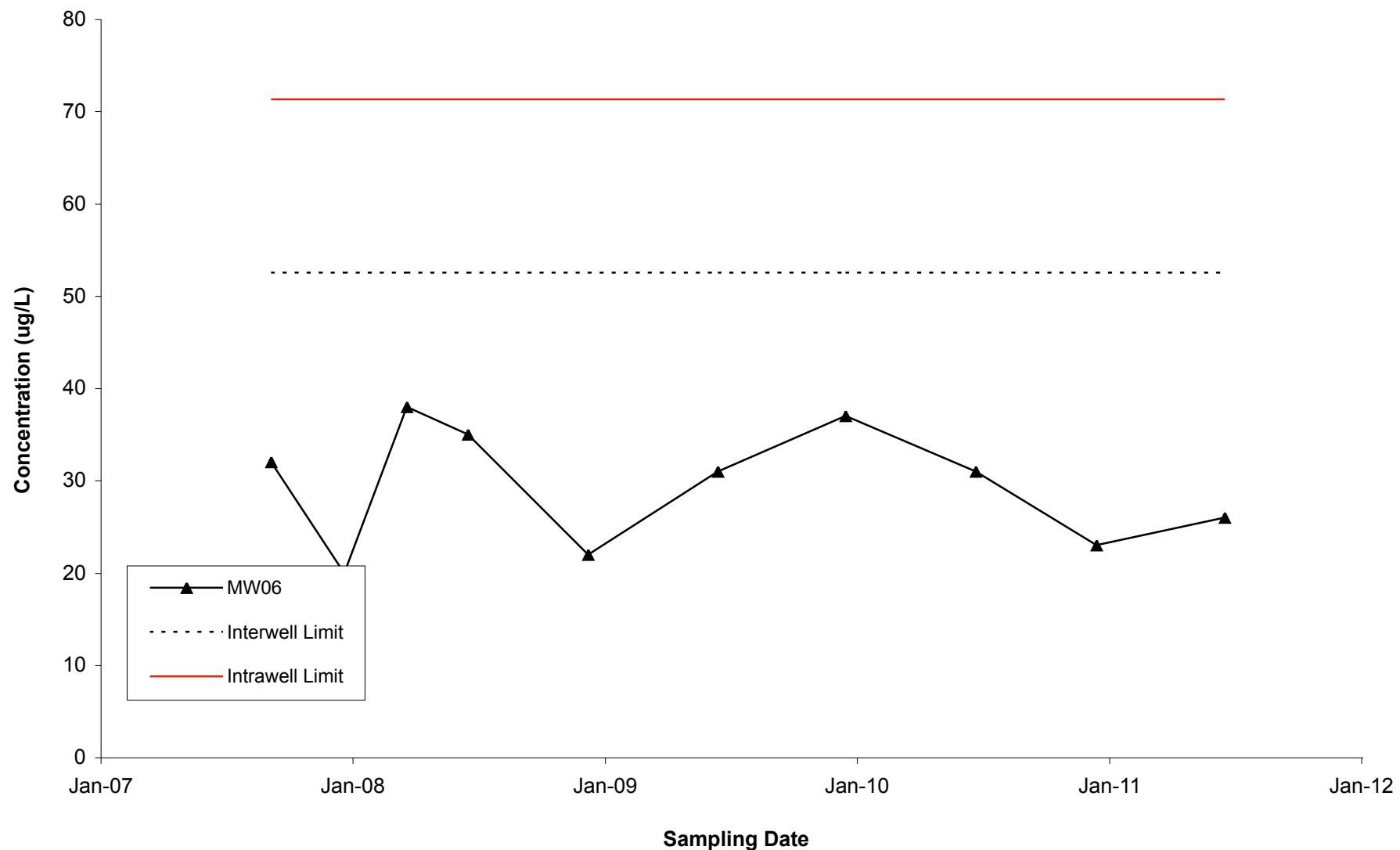
## Vinyl Chloride in Well MW05 IPC/Roto-Rooter Landfill

Note: Non-detects are marked with a clear circle.



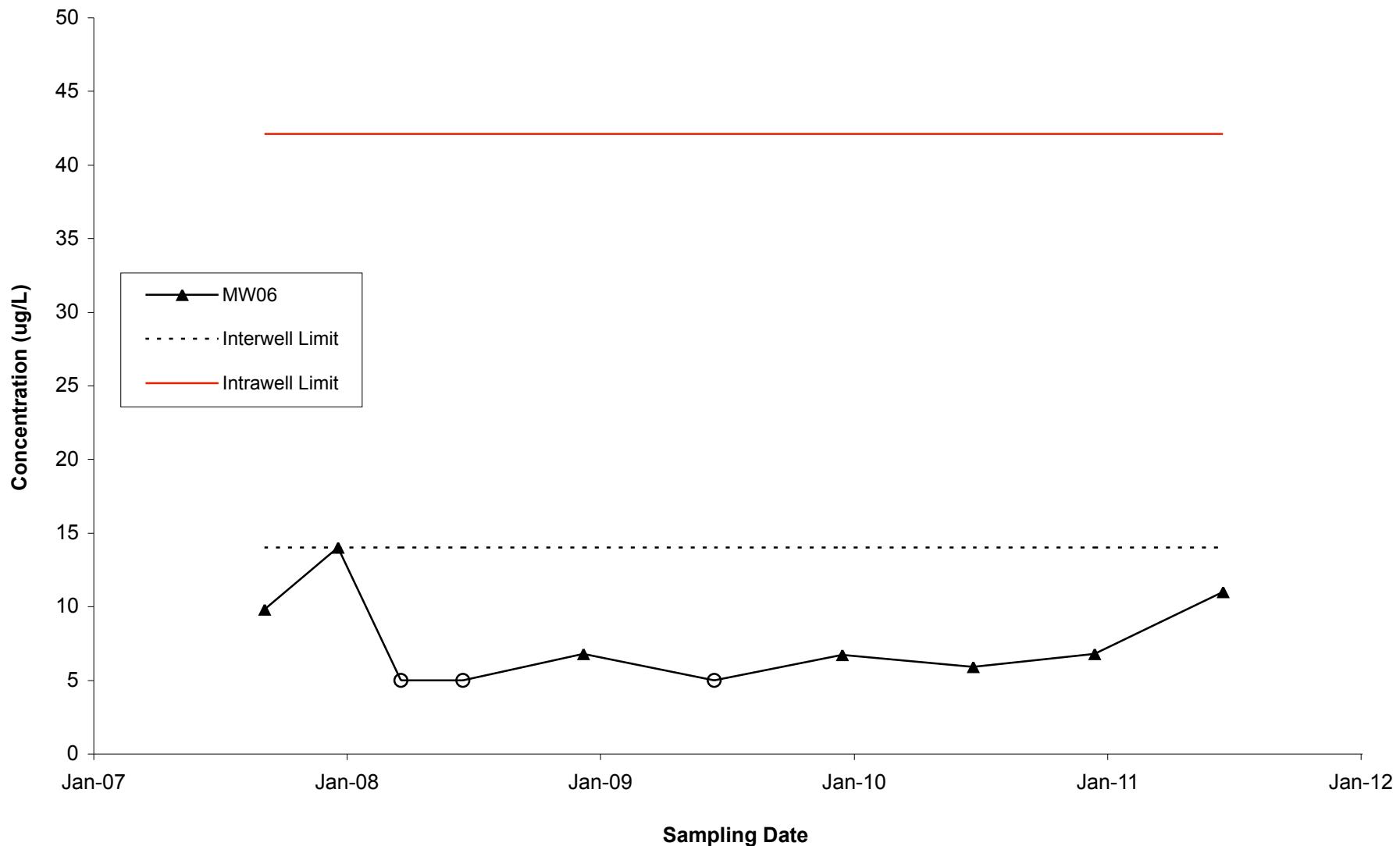
**1,1,1-Trichloroethane in Well MW06**  
**IPC/Roto-Rooter Landfill**

Note: Non-detects are  
marked with a clear circle.



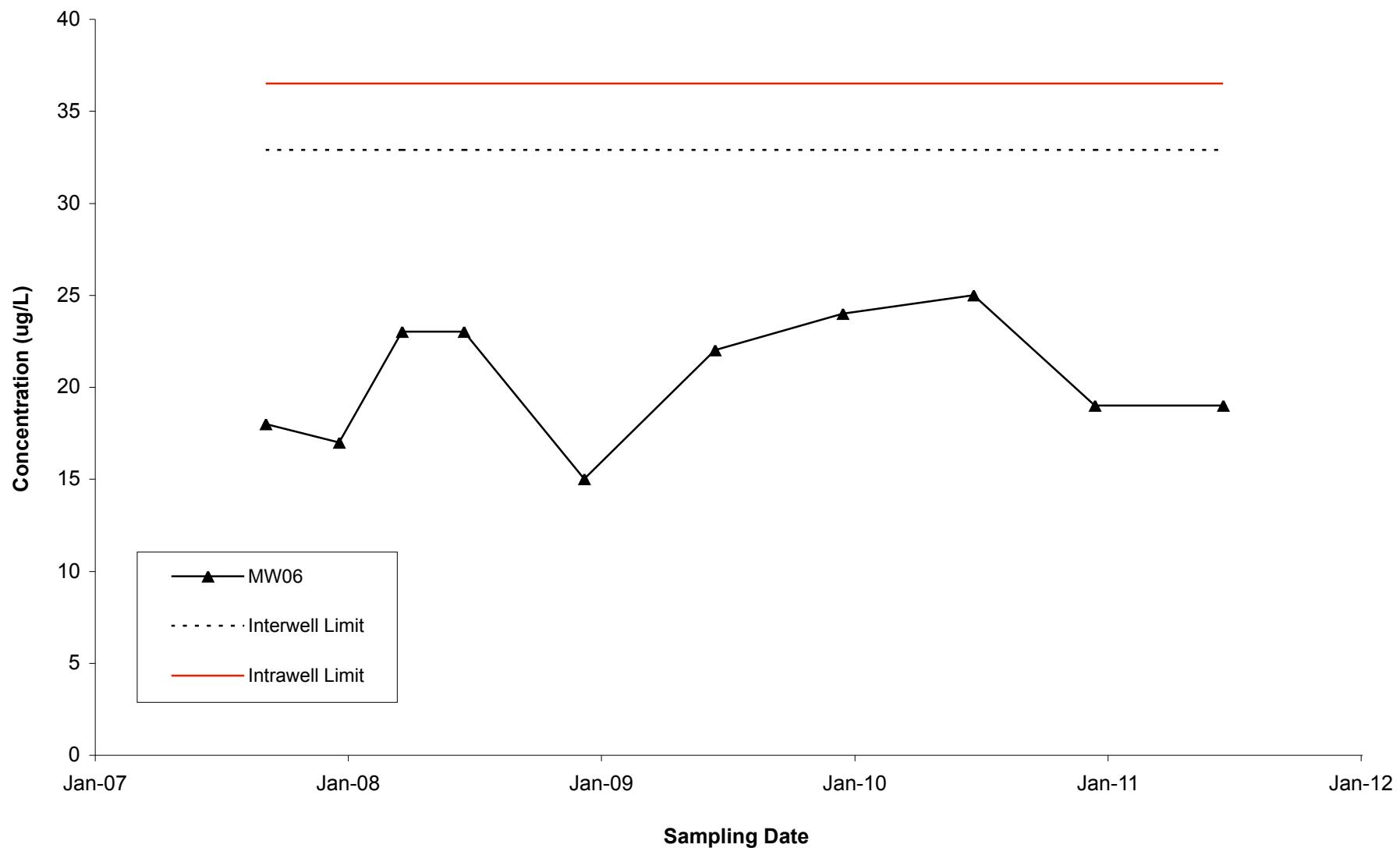
**1,1-Dichloroethane in Well MW06**  
**IPC/Roto-Rooter Landfill**

Note: Non-detects are  
marked with a clear circle.



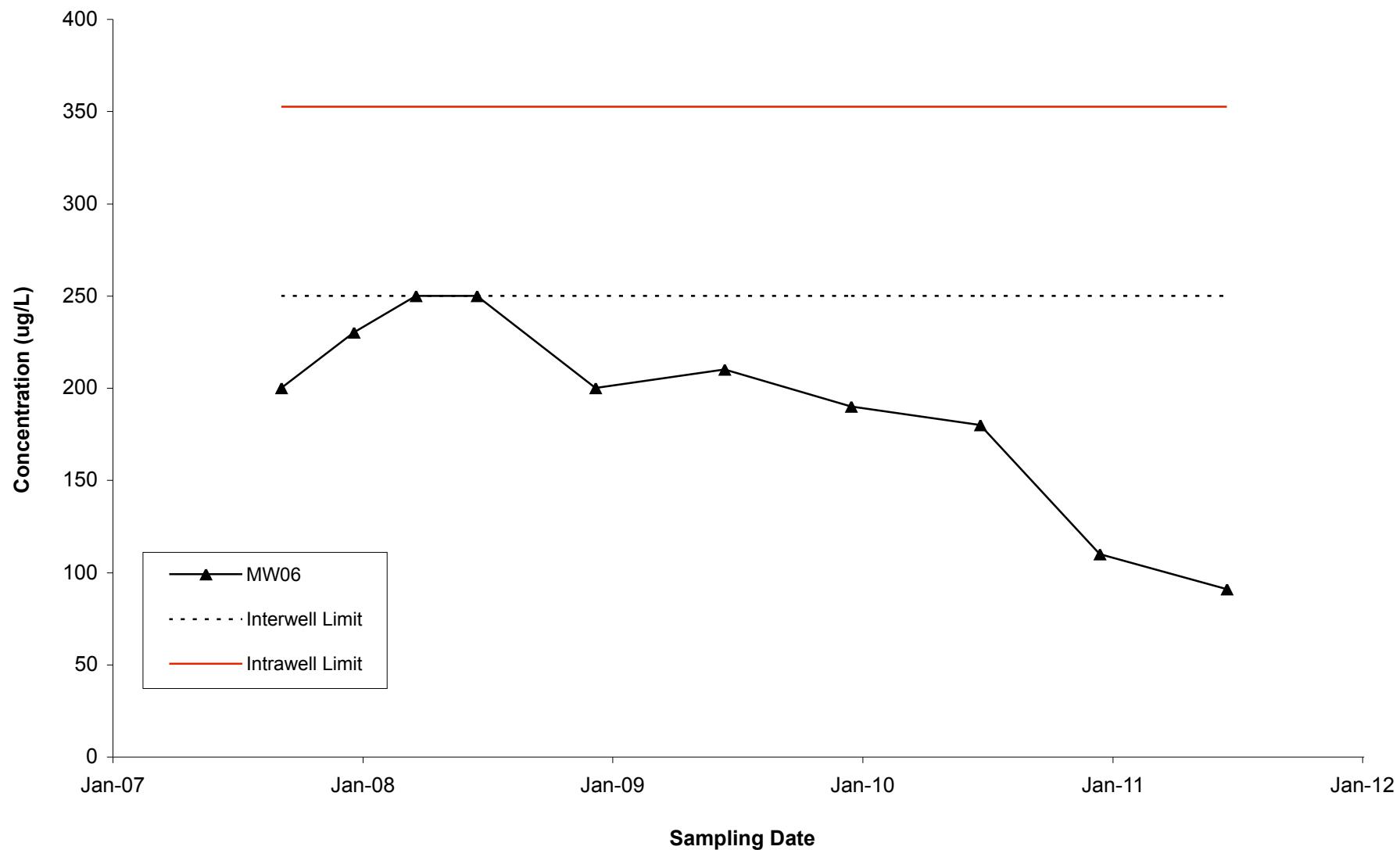
**1,1-Dichloroethene in Well MW06**  
**IPC/Roto-Rooter Landfill**

Note: Non-detects are  
marked with a clear circle.



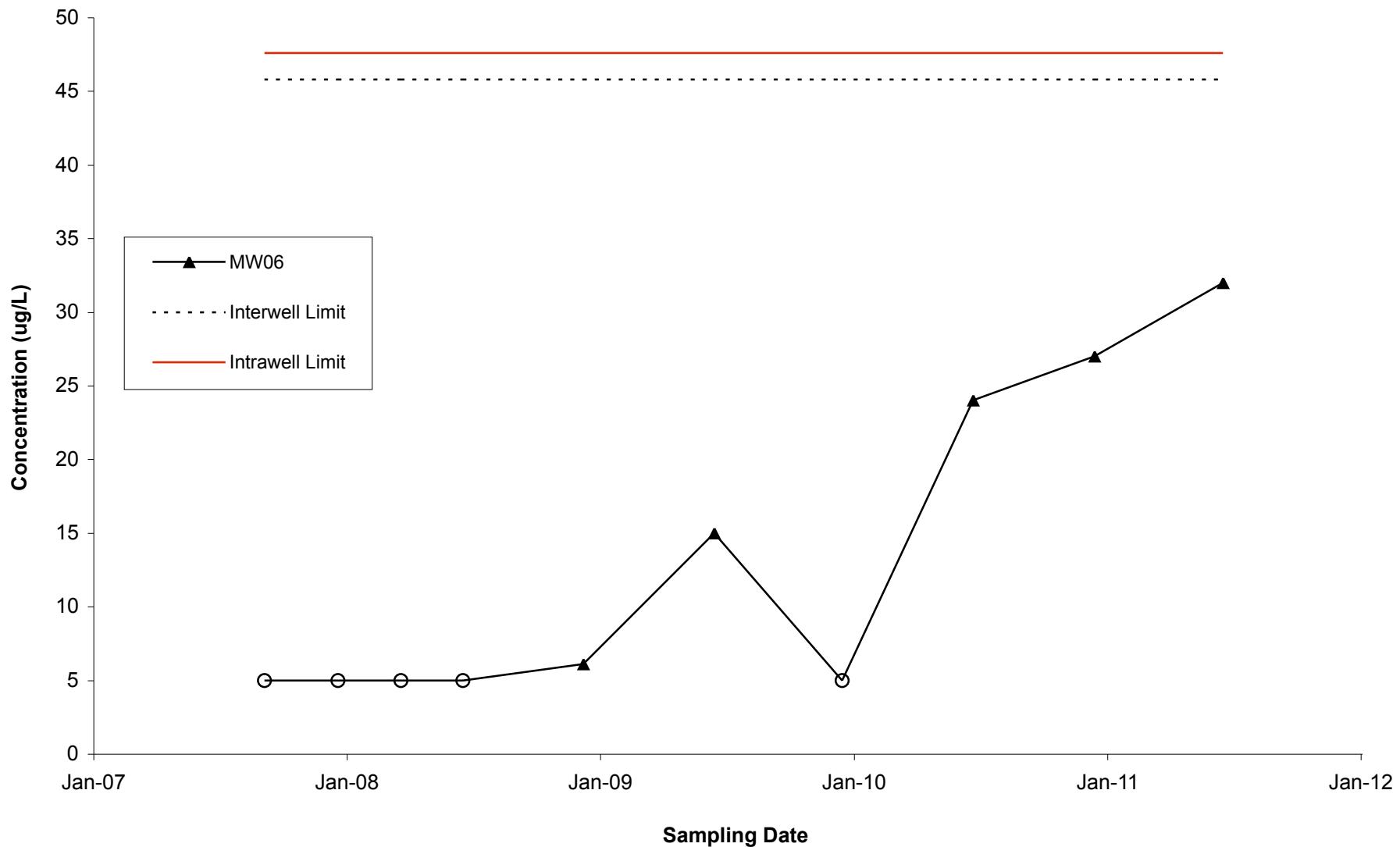
**cis-1,2-Dichloroethene in Well MW06**  
**IPC/Roto-Rooter Landfill**

Note: Non-detects are  
marked with a clear circle.



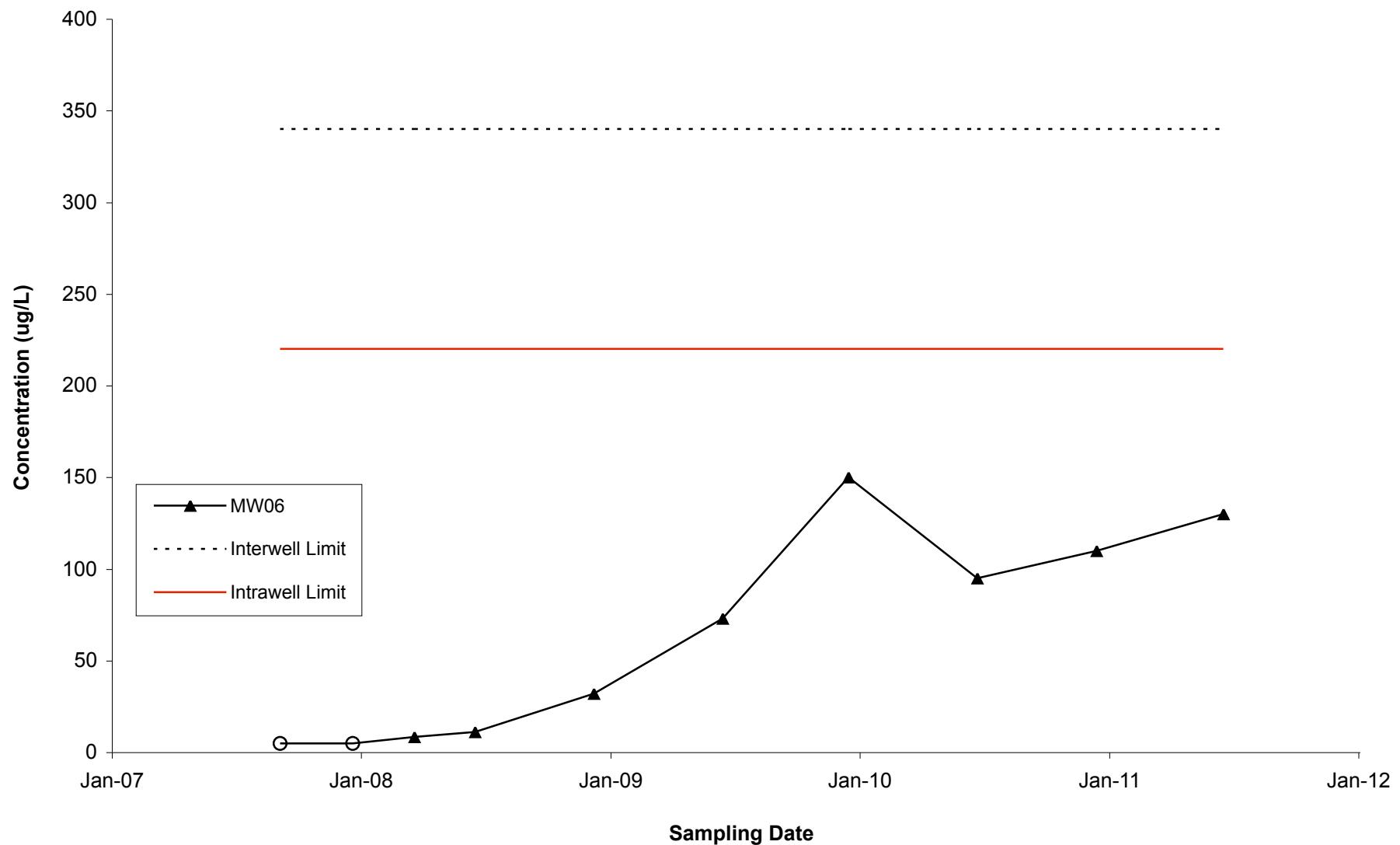
**Tetrachloroethene in Well MW06**  
**IPC/Roto-Rooter Landfill**

Note: Non-detects are  
marked with a clear circle.



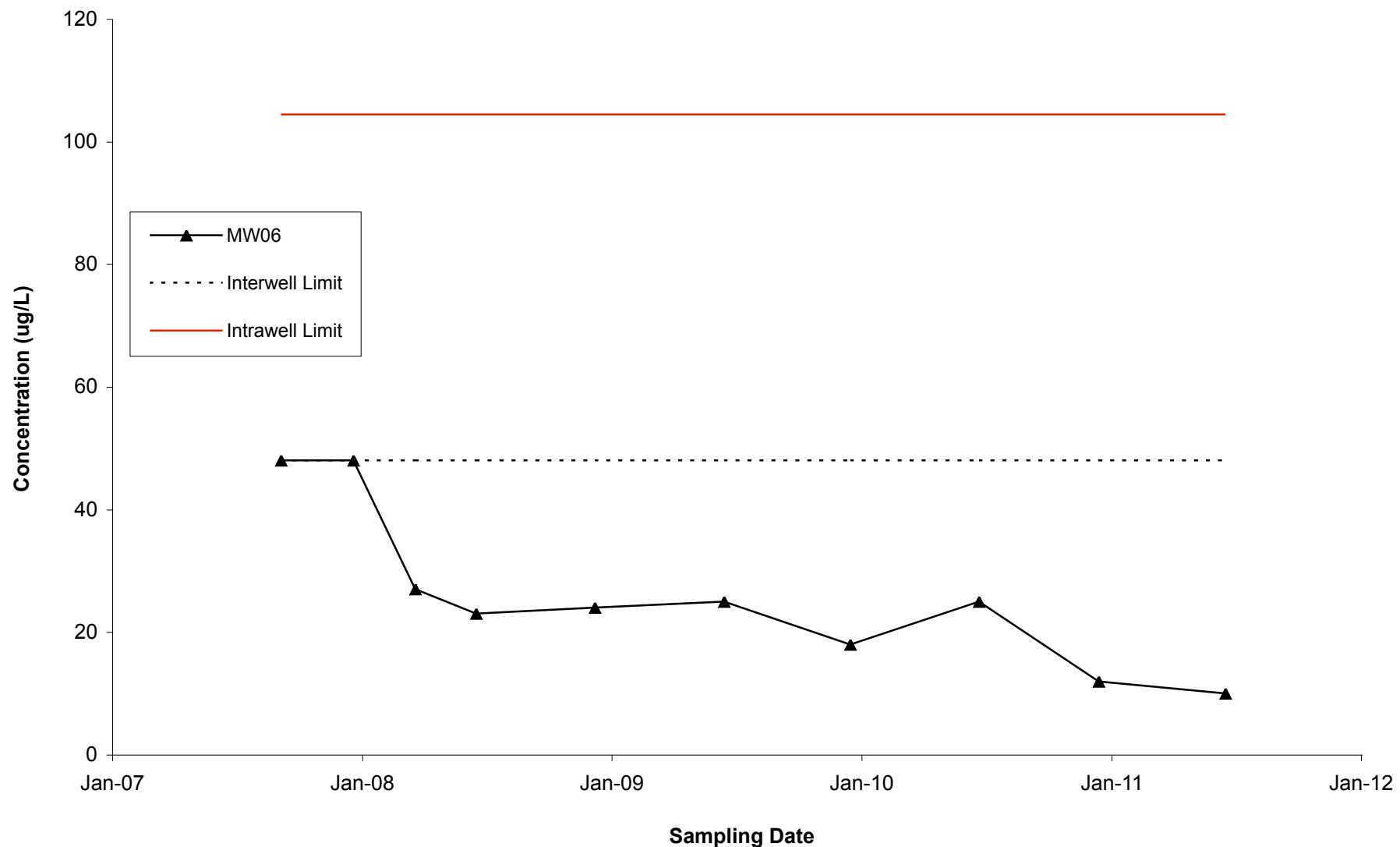
**Trichloroethene in Well MW06**  
**IPC/Roto-Rooter Landfill**

Note: Non-detects are  
marked with a clear circle.



**Vinyl Chloride in Well MW06**  
**IPC/Roto-Rooter Landfill**

Note: Non-detects are  
marked with a clear circle.



## Data Validation Checklist

Date: 1/21/2011

Validator Name: Mary Pearson (EIL)

Facility: Interstate Pollution Control - Roto Rooter

Facility Location: Rockford, Illinois

Event: Dec-10

Laboratory: TestAmerica - Chicago

Sampling Dates: 12/16/2010

Laboratory Job No: 500-29935-1 (Analysis Batch Numbers 500-102231 and 500-102458)

|  | Yes                                 | No                                  | NA                       |
|--|-------------------------------------|-------------------------------------|--------------------------|
| Were the correct analytical methodologies used?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| Were all samples analyzed within the VOC hold time (14 days)?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| Were contaminants detected in the associated laboratory blank(s)?  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Were contaminants detected in the associated trip blank(s)?  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Were contaminants detected in the associated field blank(s)?   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Were surrogate recoveries within the appropriate control ranges?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| Were laboratory control spikes within the appropriate control ranges?<br><b>1,1,1-trichloroethane recovery in batch 102231 was low; Recovery = 71%</b><br><b>Acceptance limits = 76 - 127%</b><br><b>Associated Samples: MW09, Field Blank, and Trip Blank</b> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Were field duplicate samples within 20% relative percent difference of the primary samples for all tested analytes?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |

## Duplicate Sample Evaluation

December 2010

IPC Roto-Rooter Site

| Parameter                 | Sample Date | Units | MW1 | Qualifier | Duplicate | Qualifier | RPD  |
|---------------------------|-------------|-------|-----|-----------|-----------|-----------|------|
| 1,1,1-Trichloroethane     | 12/16/2010  | ug/L  | 5   | U         | 5         | U         | 0%   |
| 1,1,2,2-Tetrachloroethane | 12/16/2010  | ug/L  | 5   | U         | 5         | U         | 0%   |
| 1,1,2-Trichloroethane     | 12/16/2010  | ug/L  | 5   | U         | 5         | U         | 0%   |
| 1,1-Dichloroethane        | 12/16/2010  | ug/L  | 14  |           | 15        |           | 6.9% |
| 1,1-Dichloroethene        | 12/16/2010  | ug/L  | 9.3 |           | 9.8       |           | 5.2% |
| 1,2-Dichloroethane        | 12/16/2010  | ug/L  | 5   | U         | 5         | U         | 0%   |
| 1,2-Dichloropropane       | 12/16/2010  | ug/L  | 5   | U         | 5         | U         | 0%   |
| 2-Hexanone                | 12/16/2010  | ug/L  | 20  | U         | 20        | U         | 0%   |
| Acetone                   | 12/16/2010  | ug/L  | 20  | U         | 20        | U         | 0%   |
| Benzene                   | 12/16/2010  | ug/L  | 5   | U         | 5         | U         | 0%   |
| Bromodichloromethane      | 12/16/2010  | ug/L  | 5   | U         | 5         | U         | 0%   |
| Bromoform                 | 12/16/2010  | ug/L  | 5   | U         | 5         | U         | 0%   |
| Bromomethane              | 12/16/2010  | ug/L  | 5   | U         | 5         | U         | 0%   |
| Carbon disulfide          | 12/16/2010  | ug/L  | 5   | U         | 5         | U         | 0%   |
| Carbon tetrachloride      | 12/16/2010  | ug/L  | 5   | U         | 5         | U         | 0%   |
| Chlorobenzene             | 12/16/2010  | ug/L  | 5   | U         | 5         | U         | 0%   |
| Chloroethane              | 12/16/2010  | ug/L  | 5   | U         | 5         | U         | 0%   |
| Chloroform                | 12/16/2010  | ug/L  | 5   | U         | 5         | U         | 0%   |
| Chloromethane             | 12/16/2010  | ug/L  | 5   | U         | 5         | U         | 0%   |
| cis-1,2-Dichloroethene    | 12/16/2010  | ug/L  | 130 |           | 120       |           | 8.0% |
| cis-1,3-Dichloropropene   | 12/16/2010  | ug/L  | 5   | U         | 5         | U         | 0%   |
| Dibromochloromethane      | 12/16/2010  | ug/L  | 5   | U         | 5         | U         | 0%   |
| Ethylbenzene              | 12/16/2010  | ug/L  | 5   | U         | 5         | U         | 0%   |
| Methyl Ethyl Ketone       | 12/16/2010  | ug/L  | 20  | U         | 20        | U         | 0%   |
| methyl isobutyl ketone    | 12/16/2010  | ug/L  | 20  | U         | 20        | U         | 0%   |
| Methylene Chloride        | 12/16/2010  | ug/L  | 10  | U         | 10        | U         | 0%   |
| Styrene                   | 12/16/2010  | ug/L  | 5   | U         | 5         | U         | 0%   |
| Tetrachloroethene         | 12/16/2010  | ug/L  | 5   | U         | 5         | U         | 0%   |
| Toluene                   | 12/16/2010  | ug/L  | 5   | U         | 5         | U         | 0%   |
| trans-1,2-Dichloroethene  | 12/16/2010  | ug/L  | 5   | U         | 5         | U         | 0%   |
| trans-1,3-Dichloropropene | 12/16/2010  | ug/L  | 5   | U         | 5         | U         | 0%   |
| Trichloroethene           | 12/16/2010  | ug/L  | 13  |           | 13        |           | 0%   |
| Vinyl chloride            | 12/16/2010  | ug/L  | 16  |           | 15        |           | 6.5% |
| Xylenes, Total            | 12/16/2010  | ug/L  | 5   | U         | 5         | U         | 0%   |

Blind field duplicate sample MW7 was collected from well MW1.

Qualifier U - Not Detected

Chemicals of Concern are highlighted in gray.

## Data Validation Checklist

Date: 9/2/2011

Validator Name: Mary Pearson (EIL)

Facility: Interstate Pollution Control - Roto Rooter

Facility Location: Rockford, Illinois

Event: Jun-11

Laboratory: TestAmerica - Chicago

Sampling Dates: 6/20/2011

Laboratory Job No: 500-35654-1 (Analysis Batch Numbers 500-118140 and 500-118330)

|   | Yes                                 | No                                  | NA                       |
|---|-------------------------------------|-------------------------------------|--------------------------|
| Were the correct analytical methodologies used?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| Were all samples analyzed within the VOC hold time (14 days)?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| Were contaminants detected in the associated laboratory blank(s)?   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Were contaminants detected in the associated trip blank(s)?   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Were contaminants detected in the associated field blank(s)?  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Were surrogate recoveries within the appropriate control ranges?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| Were laboratory control spikes within the appropriate control ranges?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| Were field duplicate samples within 20% relative percent difference of the primary samples for all tested analytes? | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |

Note:

Matrix Spike (MS) / Matrix Spike Duplicate (MSD) analyzed at well MW6. The MS/MSD recoveries were within the acceptance ranges, except for the following:

Bromomethane: MS Recovery = 169% / MSD Recovery = 163%; Acceptance Limits = 46% - 155%

Cis-1,2-Dichloroethene: MS Recovery = 122% / MSD Recovery = 123%; Acceptance Limits = 66% - 111%

Chloroform: MSD Recovery = 118%; Acceptance Limits = 71% - 116%

The associated Laboratory Control Standard (LCS) recoveries for these parameters were acceptable.

Cis-1,2-Dichloroethene was detected in well MW6 = 91 ug/L. This concentration is comparable to the previous reported concentration from December 2010 = 110 ug/L.

## Duplicate Sample Evaluation

June 2011

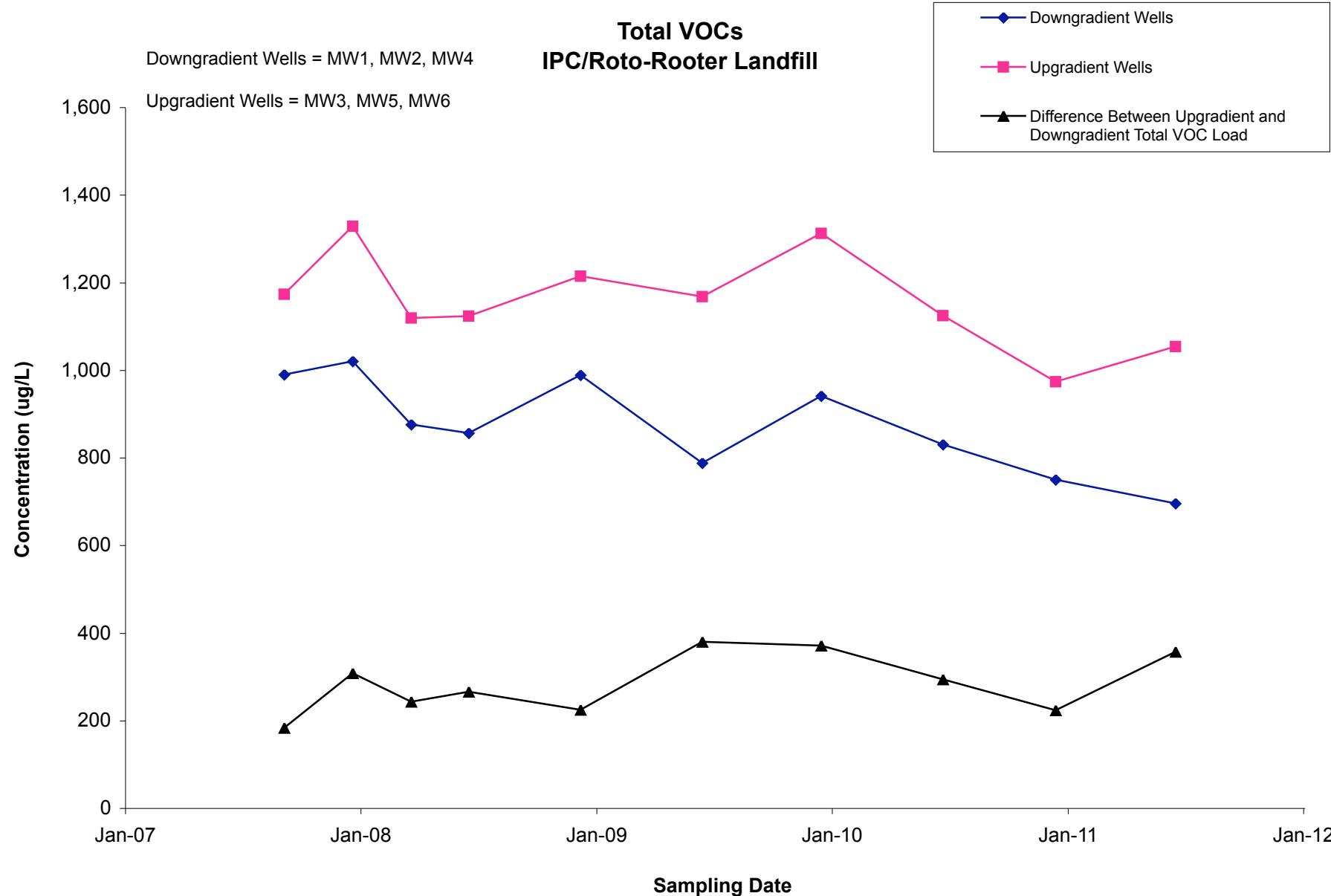
IPC Roto-Rooter Site

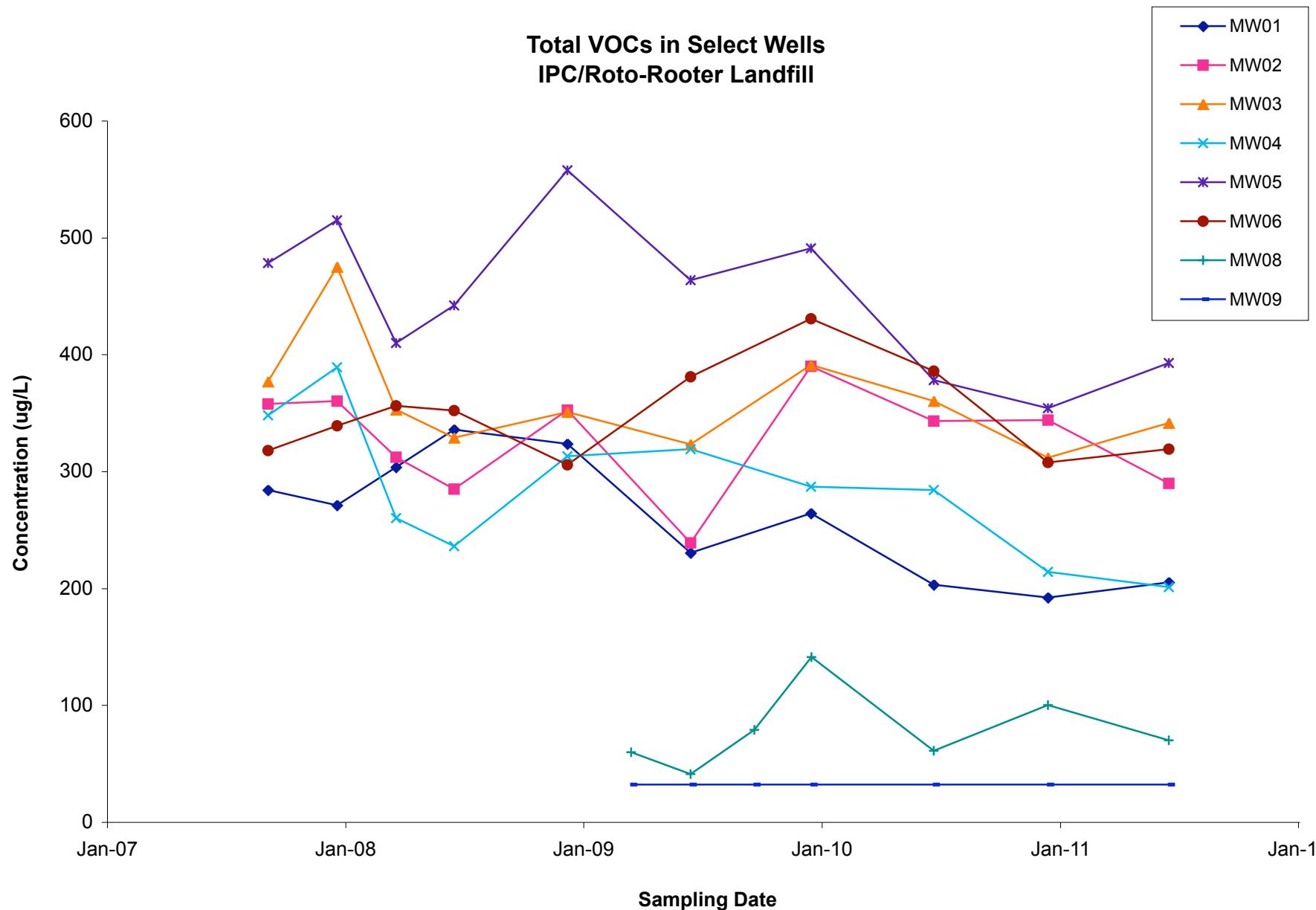
| Parameter                 | Sample Date | Units | MW1 | Qualifier | Duplicate | Qualifier | RPD   |
|---------------------------|-------------|-------|-----|-----------|-----------|-----------|-------|
| 1,1,1-Trichloroethane     | 6/20/2011   | ug/L  | 5   | U         | 5         | U         | 0%    |
| 1,1,2,2-Tetrachloroethane | 6/20/2011   | ug/L  | 5   | U         | 5         | U         | 0%    |
| 1,1,2-Trichloroethane     | 6/20/2011   | ug/L  | 5   | U         | 5         | U         | 0%    |
| 1,1-Dichloroethane        | 6/20/2011   | ug/L  | 15  |           | 16        |           | 6.5%  |
| 1,1-Dichloroethene        | 6/20/2011   | ug/L  | 12  |           | 13        |           | 8.0%  |
| 1,2-Dichloroethane        | 6/20/2011   | ug/L  | 5   | U         | 5         | U         | 0%    |
| 1,2-Dichloropropane       | 6/20/2011   | ug/L  | 5   | U         | 5         | U         | 0%    |
| 2-Hexanone                | 6/20/2011   | ug/L  | 20  | U         | 20        | U         | 0%    |
| Acetone                   | 6/20/2011   | ug/L  | 20  | U         | 20        | U         | 0%    |
| Benzene                   | 6/20/2011   | ug/L  | 5   | U         | 5         | U         | 0%    |
| Bromodichloromethane      | 6/20/2011   | ug/L  | 5   | U         | 5         | U         | 0%    |
| Bromoform                 | 6/20/2011   | ug/L  | 5   | U         | 5         | U         | 0%    |
| Bromomethane              | 6/20/2011   | ug/L  | 5   | U         | 5         | U         | 0%    |
| Carbon disulfide          | 6/20/2011   | ug/L  | 5   | U         | 5         | U         | 0%    |
| Carbon tetrachloride      | 6/20/2011   | ug/L  | 5   | U         | 5         | U         | 0%    |
| Chlorobenzene             | 6/20/2011   | ug/L  | 5   | U         | 5         | U         | 0%    |
| Chloroethane              | 6/20/2011   | ug/L  | 5   | U         | 5         | U         | 0%    |
| Chloroform                | 6/20/2011   | ug/L  | 5   | U         | 5         | U         | 0%    |
| Chloromethane             | 6/20/2011   | ug/L  | 5   | U         | 5         | U         | 0%    |
| cis-1,2-Dichloroethene    | 6/20/2011   | ug/L  | 140 |           | 160       |           | 13.3% |
| cis-1,3-Dichloropropene   | 6/20/2011   | ug/L  | 5   | U         | 5         | U         | 0%    |
| Dibromochloromethane      | 6/20/2011   | ug/L  | 5   | U         | 5         | U         | 0%    |
| Ethylbenzene              | 6/20/2011   | ug/L  | 5   | U         | 5         | U         | 0%    |
| Methyl Ethyl Ketone       | 6/20/2011   | ug/L  | 20  | U         | 20        | U         | 0%    |
| Methyl Isobutyl Ketone    | 6/20/2011   | ug/L  | 20  | U         | 20        | U         | 0%    |
| Methylene Chloride        | 6/20/2011   | ug/L  | 10  | U         | 10        | U         | 0%    |
| Styrene                   | 6/20/2011   | ug/L  | 5   | U         | 5         | U         | 0%    |
| Tetrachloroethene         | 6/20/2011   | ug/L  | 5   | U         | 5         | U         | 0%    |
| Toluene                   | 6/20/2011   | ug/L  | 5   | U         | 5         | U         | 0%    |
| trans-1,2-Dichloroethene  | 6/20/2011   | ug/L  | 5   | U         | 5         | U         | 0%    |
| trans-1,3-Dichloropropene | 6/20/2011   | ug/L  | 5   | U         | 5         | U         | 0%    |
| Trichloroethene           | 6/20/2011   | ug/L  | 9.1 |           | 10        |           | 9.4%  |
| Vinyl chloride            | 6/20/2011   | ug/L  | 19  |           | 20        |           | 5.1%  |
| Xylenes, Total            | 6/20/2011   | ug/L  | 5   | U         | 5         | U         | 0%    |

Blind field duplicate sample MW7 was collected from well MW1.

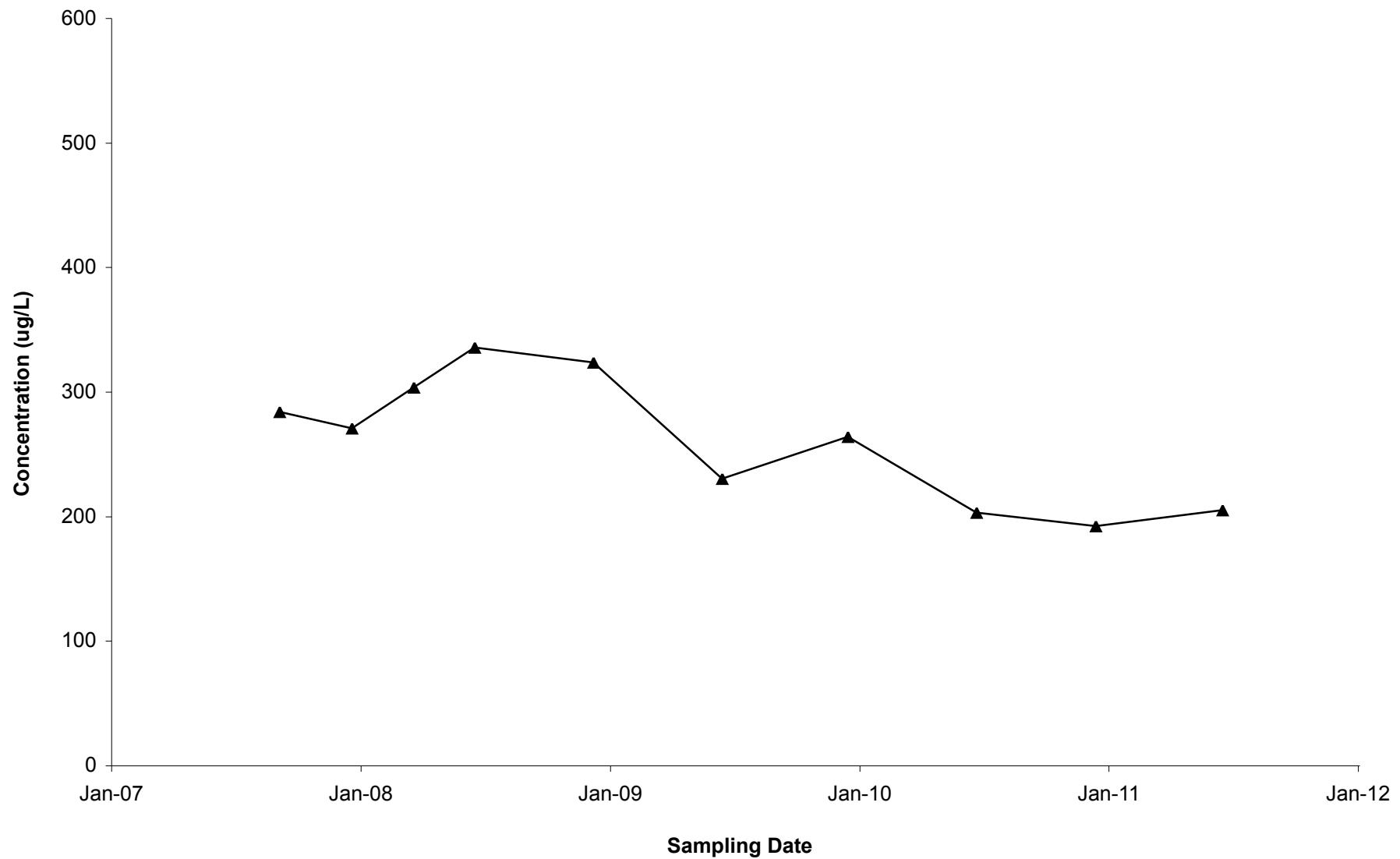
Qualifier U - Not Detected

Chemicals of Concern are highlighted in gray.

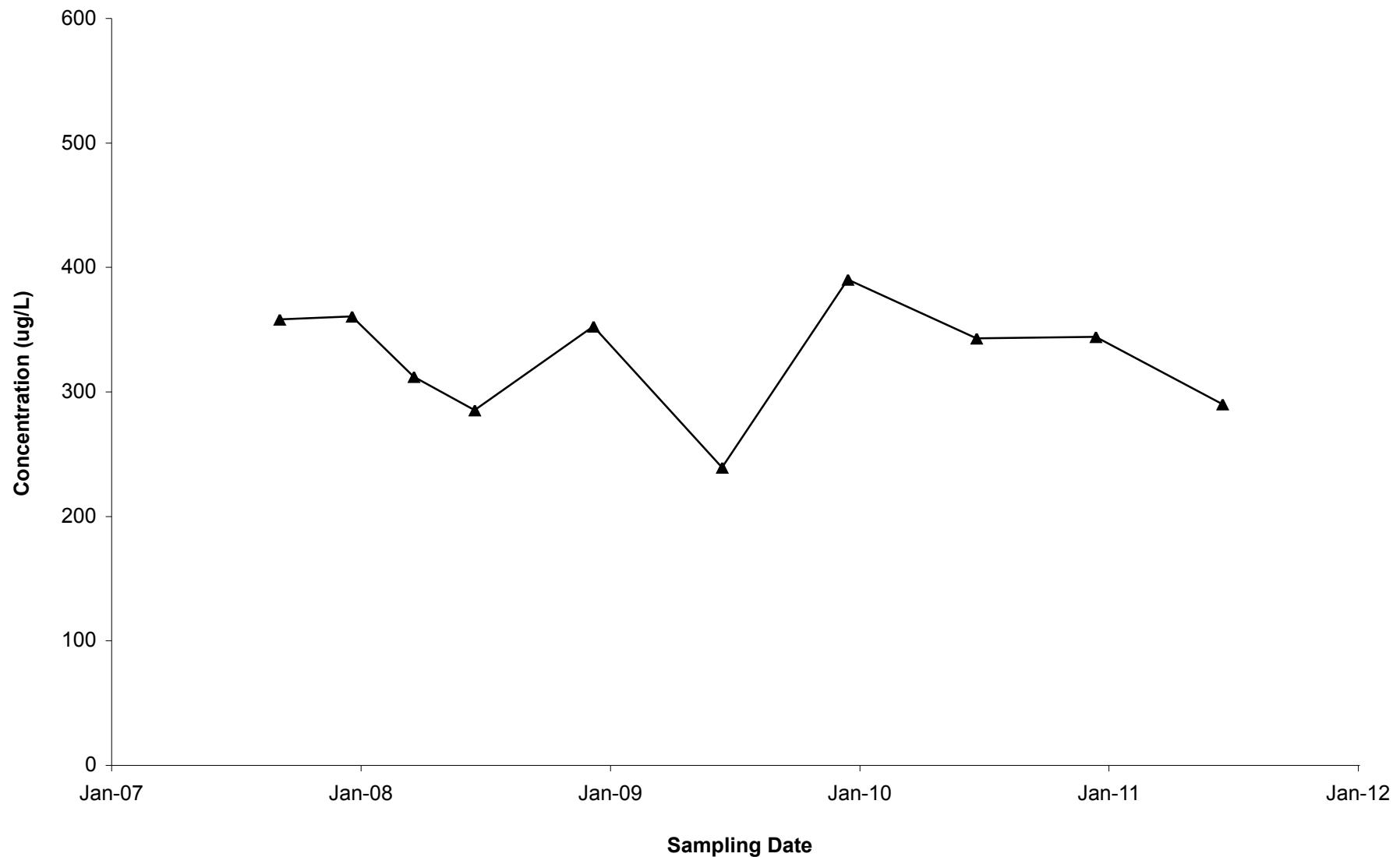




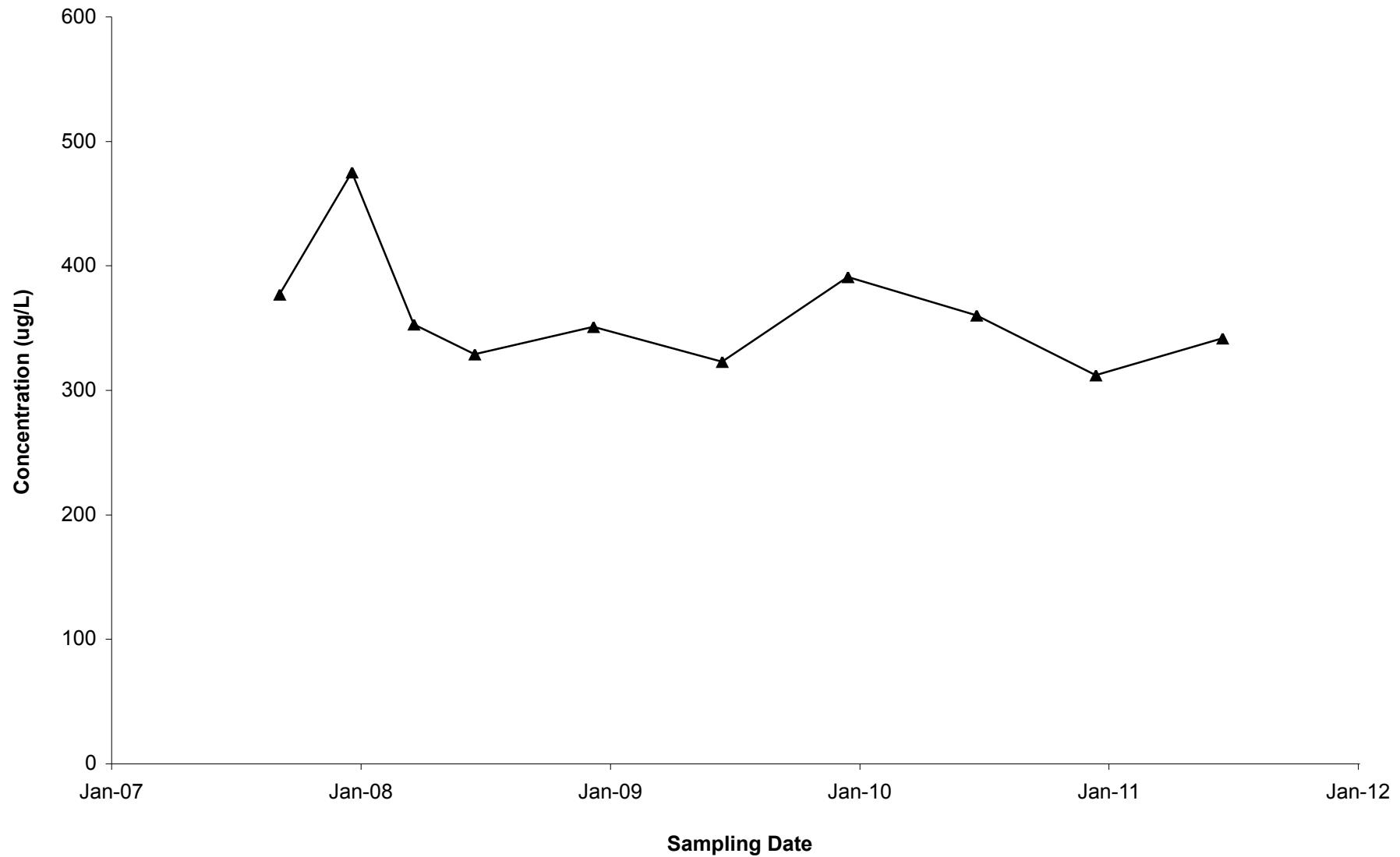
**Total VOCs in Well MW01  
IPC/Roto-Rooter Landfill**



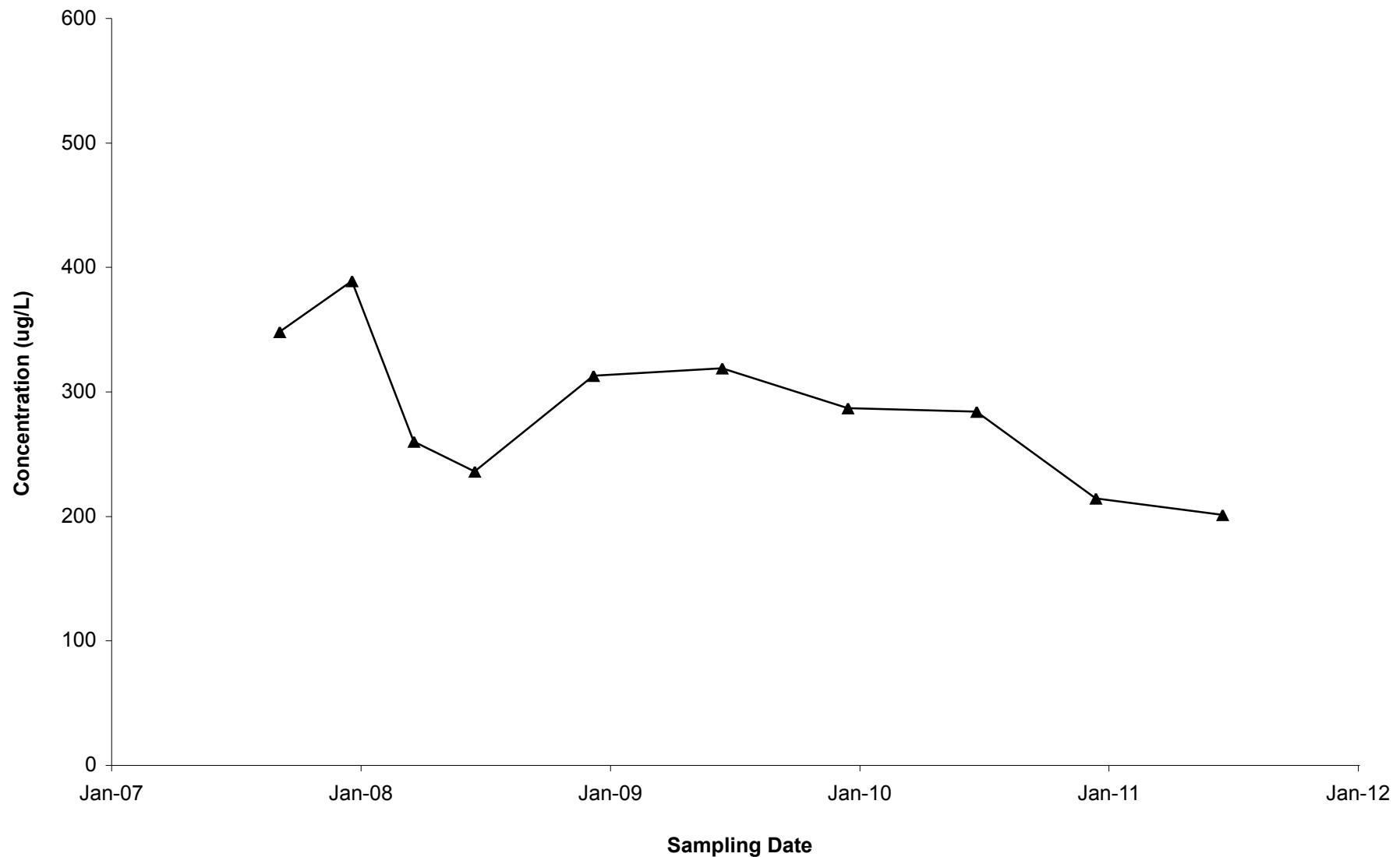
**Total VOCs in Well MW02**  
**IPC/Roto-Rooter Landfill**

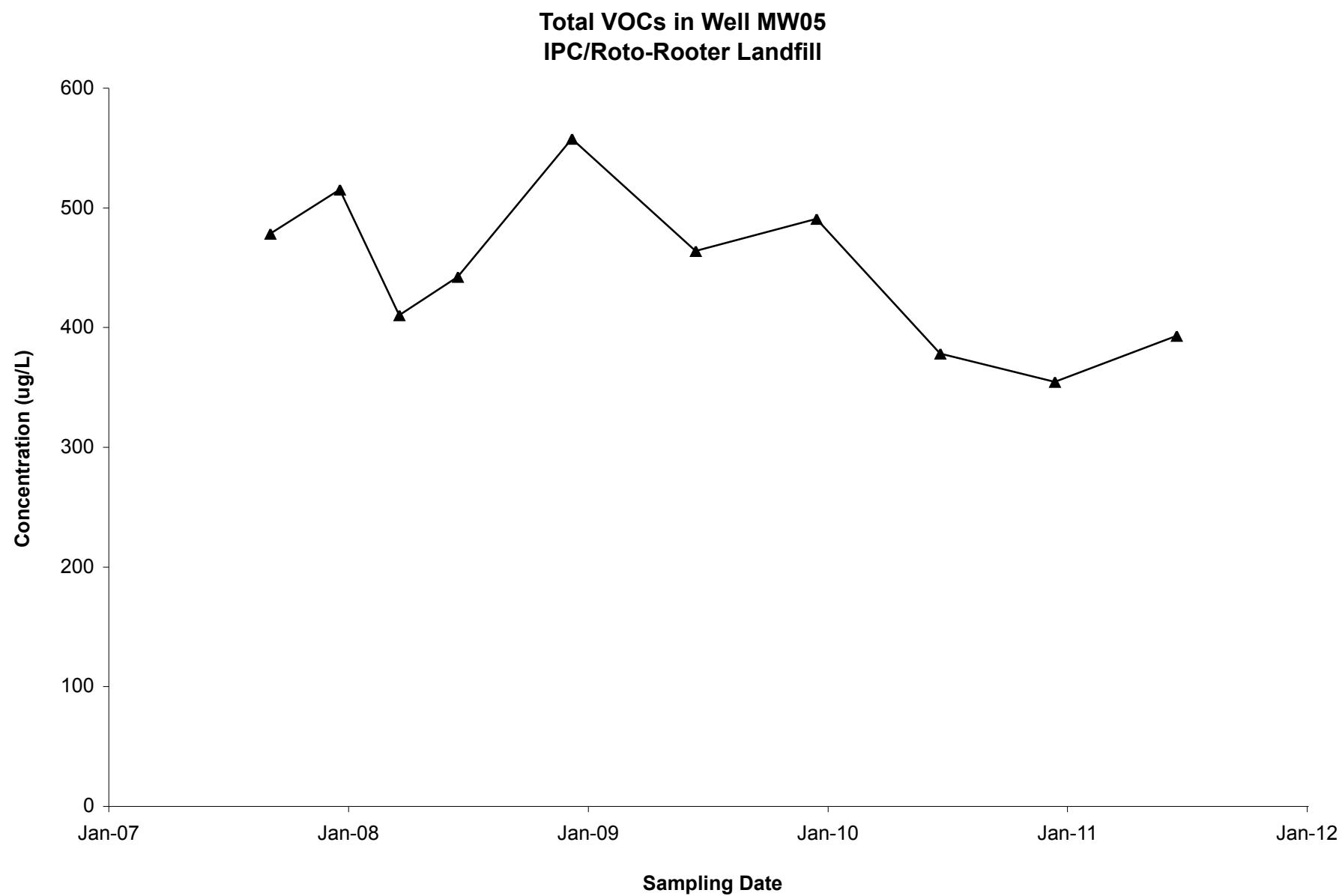


**Total VOCs in Well MW03  
IPC/Roto-Rooter Landfill**

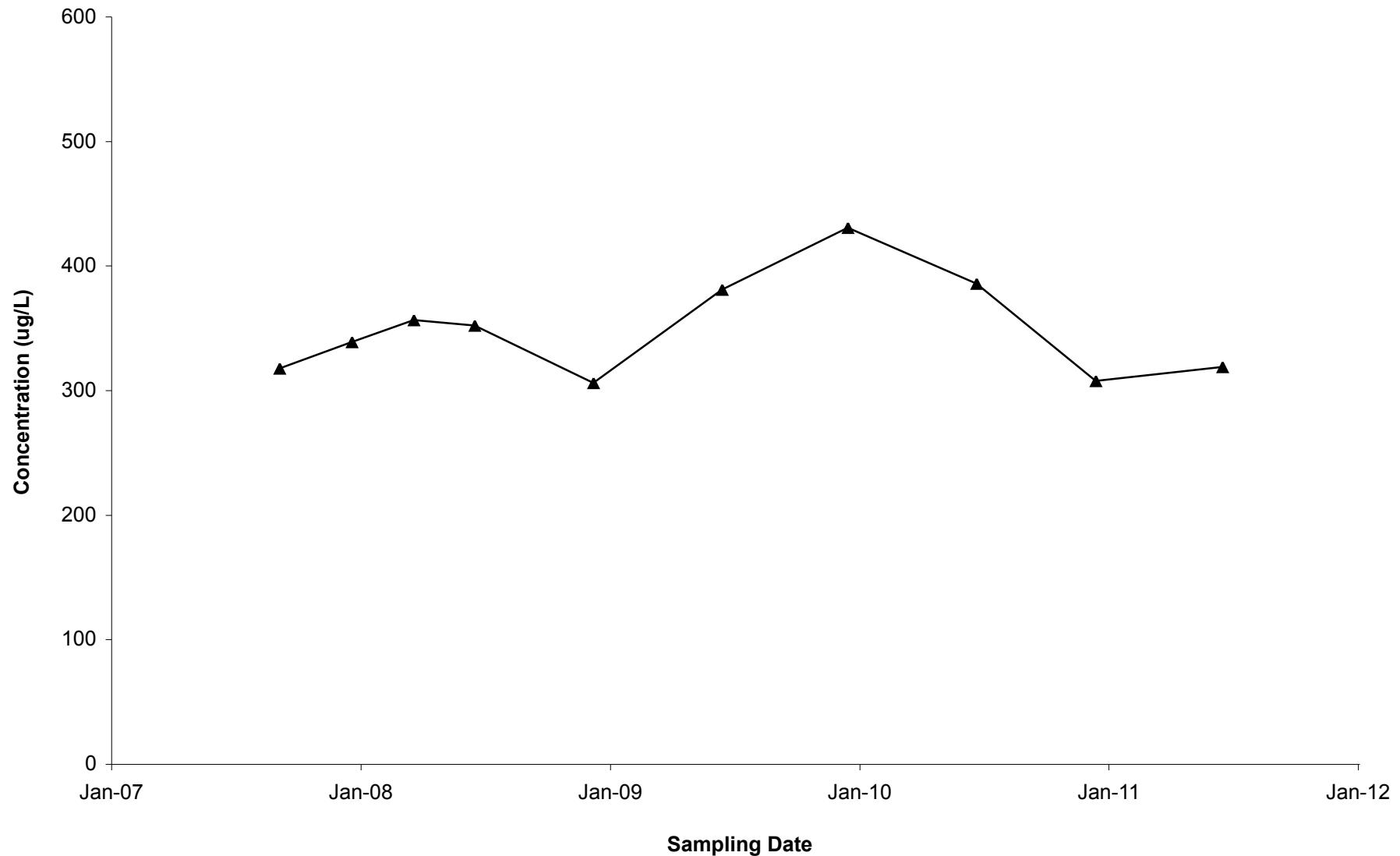


**Total VOCs in Well MW04**  
**IPC/Roto-Rooter Landfill**

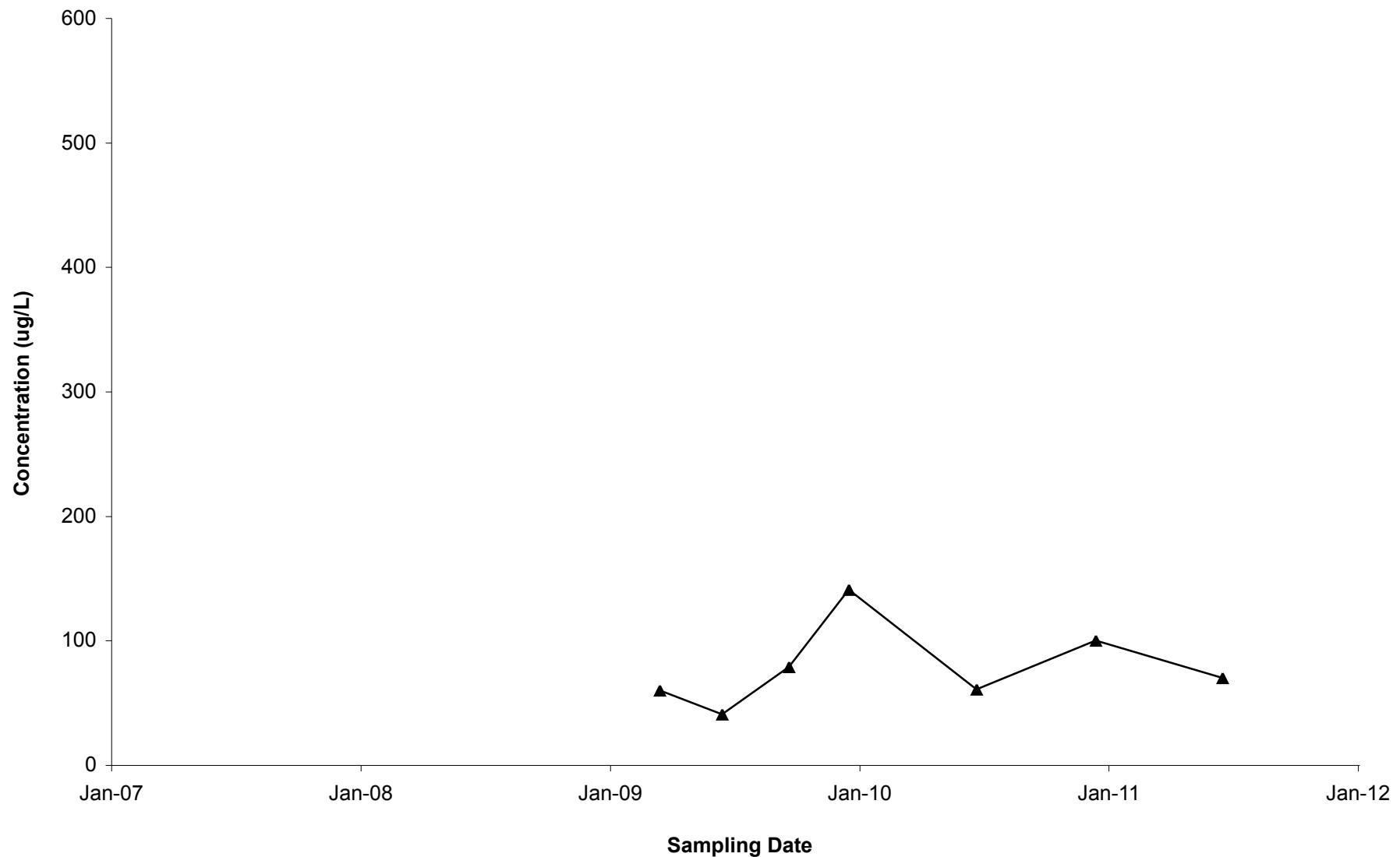




**Total VOCs in Well MW06  
IPC/Roto-Rooter Landfill**



**Total VOCs in Well MW08  
IPC/Roto-Rooter Landfill**



**Total VOCs in Well MW09  
IPC/Roto-Rooter Landfill**

